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**MEETING AGENDA
ENVIRONMENTAL PROTECTION COMMISSION
WALLACE STATE OFFICE BUILDING
DES MOINES, IOWA
July 15-16, 1991**

Meeting convenes at 10:00 a.m., Monday, July 15, in the fourth floor conference room and reconvenes at 8:30 a.m., Tuesday, July 16.

Public Participation (Monday, July 15)

10:30 a.m.

Appointments:

Carl Burkhart (Item #13)

Vern Starling (Item #12)

Chicago & Northwestern Transportation; Hawkeye Land Co.; and Blue Chip Enterprises (Item #14)

City of Ames (Item #15)

Ken McNichols (Linwood Mining) (Item #16-A)

1. **Approve Agenda.** *Soo Line R.R. (Item #16-D)*
Lehigh Portland Cement (Item #16-C)

2. **Approve Minutes of June 17, 1991.**

3. **Director's Report. (Wilson) Information.**

4. **Award of Contract - Rock Rapids Phase I Site Assessment. (Kuhn) Decision.**

5. **Financial Status Report. (Kuhn) Information.**

6. **Landfill Alternative Grant Applications. (Hay) Information.**

7. **Toxic Cleanup Days - Fall 1991. (Hay) Information.**

8. **Monthly Reports. (Stokes) Information.**

9. **Final Rule--Chapters 91 and 92, Criteria for Award of Grants; State Revolving Fund Loans for Wastewater Treatment. (Stokes) Decision.**

10. **Final Rule--Chapter 61, Water Quality Standards: Stream Use Designations - Phase III. (Stokes) Decision.**

11. **Proposed Rule--Chapter 16, Sales of Goods and Services by Department Employees and Officials. (Combs) Information.**

12. **Contested Case Appeal--Vern Starling. (Combs) Decision.**

13. **Contested Case Appeal--Carl Burkhart. (Combs) Decision.**

14. **Contested Case Appeal--Chicago & Northwestern Transportation Co.; Hawkeye Land Co.; and Blue Chip Enterprises. (Combs) Decision.**

15. **Contested Case Appeal--City of Ames. (Combs) Decision.**

1:30 p.m.

2:00 p.m.

2:30 p.m.

3:30 p.m.

9:00 A.M. (July 16)

9:30 A.M. (July 16)

10:00 A.M. (July 16)

July 15

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16. Referrals to the Attorney General. (Combs) Decision.

- (a) Linwood Mining and Minerals Corp. (Davenport)**
- (b) Cherokee Hog Farms/Robert Bryant (Cherokee)**
- (c) Lehigh Portland Cement Company (Mason City)**
- (d) Soo Line Railroad Company (Mason City)**
- (e) John Dennis and Kirk Knox (Exira)**

17. Legislation Report. (Combs) Information.

18. General Discussion.

19. Address Items for Next Meeting.

NEXT MEETING DATES

August 19-20, 1991
September 16-17, 1991
October 21-22, 1991

ENVIRONMENTAL PROTECTION COMMISSION

Monday, July 15, 1991

NAME

COMPANY OR AGENCY

CITY

(please print)

JACK SOENER	IA ASSOC BUSINESS & IND	D.M.
Kathryn Bandille	attorney	D. M.
Charlotte Caves	Iowa Dress Club	Osbalossa
Jack Clark	Iowa Utility Assoc.	D. M.
DAN VEST	GROW MARK, INC	Bloomington, IL.
Keith Champfle	Hygiene Rt	Jew City
Barbara B. B. B.		
Law. Webb	Shelby County Law	D. M.
John R. Klaus	City of Ames	Ames
Michael A. Smith	Eldora	Eldora
Terry Timmins	City of Des Moines	

ENVIRONMENTAL PROTECTION COMMISSION

Tuesday, July 16, 1991

NAME

COMPANY OR AGENCY

CITY

(please print)

THOMAS JACOBSON

IOWA DEPT OF TRANSP.

AMES

GREG BUSH

LINWOOD MINING

DAVENPORT

BOB NIEMELA

" "

" "

JEFF REUTER

" "

" "

G.D. KNEWER

" "

" "

Ken McNichols

Iowa Limestone Prod Assn

Des Moines

Don Dunlap

Basic Materials Corp

Waterloo

Melvin Van Dusseldorp

Kaser Corp

Des Moines

Jack Rose

Vulcan Mats Co.

Cedar Rapids

ERNE MYERS

MARTIN MARIETTA

D.M.

MICHAEL GRIFFIN

JMM

DM

Randy Kroneman

JMM

D.M.

Joe Shriver

Lehigh

Mason City

KENNETH BLUM

Lehigh Cement

Mason City

DAN FALLON

Lehigh Cement

MASON CITY

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Minutes of the Environmental Protection Commission Meeting

July 15-16, 1991

Wallace State Office Building, Des Moines, Iowa

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JULY 1991 COMMISSION MEETING

The meeting of the Environmental Protection Commission was held in the Wallace State Office Building, Des Moines, Iowa, convening at 10:00 a.m. on July 15, 1991.

MEMBERS PRESENT

Mike Earley, William Ehm, Richard Hartsuck, Rozanne King, Charlotte Mohr, Gary Priebe, Nancy Lee Siebenmann, and Clark Yeager.

MEMBERS ABSENT

Margaret Prah, Mike Earley and William Ehm (July 16 only)

ADOPTION OF AGENDA

The meeting agenda was amended as follows:

Appointment - Linwood Mining & Minerals Corp. (Item #16-A) - 9:00 a.m.
Appointment - Soo Line Railroad Company (Item #16-D) - 9:30 a.m.
Appointment - Lehigh Portland Cement Company (Item #16-C) - 10:00 a.m.

Motion was made by Charlotte Mohr to approve the agenda as amended. Seconded by William Ehm. Motion carried unanimously.

ADOPTION OF MINUTES

Charlotte Mohr noted that the first paragraph on Page 73 should be corrected to read that five commissioners and a director were "reappointed" and one new commissioner was appointed.

Motion was made by William Ehm to approve the minutes of June 17, 1991, as amended. Seconded by Charlotte Mohr. Motion carried unanimously.

DIRECTOR'S REPORT

Larry Wilson, Director, announced that Teresa Hay has been selected Chairperson of the Midwest Interstate Low Level Radioactive Waste Commission. Their next meeting is July 24, at which time they will entertain a move to revoke Michigan's membership in the compact. Depending on the action taken by the compact, the next move would be to select another host state.

Director Wilson gave an update on the ISU Radiological Laboratory being given a status of "Class C," which means there is no immediate significant threat to public health. He noted that the next step is for ISU to continue to monitor, collect samples, and send information to either verify that "Class C" is correct or that it needs to be increased to a higher class for more immediate action.

Director Wilson reported that North High School is located on a former waste disposal site and there is a good possibility that some materials disposed of there are threatening. The school has been notified that they will be on the state Superfund list and they have appealed.

Director Wilson distributed copies of a letter from the Iowa Pollution Control Association thanking the Commission and staff for working with them in the past and stating that they hope that this relationship will continue.

AWARD OF CONTRACT - ROCK RAPIDS PHASE I SITE ASSESSMENT

Mark Slatterly, Bureau Chief, Budget and Grants Bureau, presented the following item.

SEALED PROPOSALS WERE RECEIVED ON MAY 21, 1991, FOR RFP NO. 91-7332-02, PHASE I - SITE ASSESSMENT, ROCK RAPIDS, IOWA.

THIS PROJECT INVOLVES CONDUCTING A SITE ASSESSMENT OF THE PETROLEUM CONTAMINATION AT THE ABOVE MENTIONED LOCATION. THIS ASSESSMENT WILL (1) IDENTIFY THE SOURCE OR SOURCES OF THE PETROLEUM CONTAMINATION, (2) DETERMINE THE VERTICAL AND HORIZONTAL EXTENT OF THE PETROLEUM CONTAMINATION IN THE SOILS AND GROUNDWATER, AND (3) ENABLE THE DEPARTMENT TO DETERMINE WHAT DEGREE OF CLEANUP IS NECESSARY TO MITIGATE THE ENVIRONMENTAL, HUMAN HEALTH AND SAFETY CONCERNS. THE PROJECT IS 90% FUNDED BY THE LUST TRUST FUND AND 10% FUNDED BY THE STATE FUND.

THREE PROPOSALS WERE RECEIVED. THE REVIEW TEAM'S RECOMMENDATION FOR CONTRACT AWARD IS BASED ON A TECHNICAL REVIEW AND COST REVIEW OF THE PROPOSALS. THE FOLLOWING IS A SUMMARY OF THE REVIEWS:

CONSULTANT	PROPOSAL SCORE	COST SCORE	TOTAL SCORE	COST
GEOTEK ENGINEERING & TESTING SERVICE INC., SIOUX FALLS, SD	20	58	78	\$32,815.00
MIDWEST ENVIRONMENTAL CONTROL CORP., MINNEAPOLIS, MN	16	53	69	\$64,771.50
HWS TECHNOLOGIES, INC. LINCOLN, NE	13	55	68	\$99,714.44

BASED ON A REVIEW OF THE TECHNICAL AND COST PROPOSALS, THE STAFF RECOMMENDS THE COMMISSION AWARD THIS CONTRACT TO GEOTEK ENGINEERING & TESTING SERVICE, INC., SIOUX FALLS, SD. THE CONTRACTOR WILL PERFORM THE WORK CALLED FOR IN THE CONTRACT ON A TIME AND MATERIALS BASIS. THE CONTRACTOR WILL RECEIVE COMPENSATION FOR ALL SERVICES AND WORK PERFORMED FOR PHASE I UP TO A CEILING PRICE OF \$32,815.00.

Mark Slatterly gave a brief explanation of the contract.

Charlotte Mohr asked if any Iowa firms made a bid on this project.

Mr. Slatterly responded that he was not aware of any Iowa firms making a bid.

Motion was made by Charlotte Mohr to approve award of the contract for Rock Rapids Phase I Site Assessment to Geotek Engineering and Testing Service, Inc., Sioux Falls, South Dakota, at a cost of \$32,815.00. Seconded by Nancy Lee Siebenmann. Motion carried unanimously.

FINANCIAL STATUS REPORT AND BUDGET STATUS REPORT

Mark Slatterly, Bureau Chief, Budget and Grants Bureau, presented the following item.

The staff will present the usual monthly financial status report, by division, for FY91 as of June 30.

The process of finalizing the FY92 budget detail and initiating the process for preparing the FY93/94 request is underway. Because of the various issues surrounding the FY92 budget, detailed financial information is not yet available. The latest available status and/or data will be presented at the Commission meeting.

July 1991

Environmental Protection Commission Minutes

DNR DIVISION STATUS, 6/30/91

COST CENTER	CLASS	JUNE YTD BUDGET	JUNE YTD ACTUAL	OVER(-) UNDER
1000 DIRECTOR'S OFFICE	101 PERSONAL SERVIC	269,370	243,197	26,173
1000 DIRECTOR'S OFFICE	202 PERSONAL TRAVEL	34,500	27,710	6,790
1000 DIRECTOR'S OFFICE	203 STATE VEHICLE O			
	204 STATE VEHICLE D			
	301 OFFICE SUPPLIES	1,650	527	1,123
	302 FACILITY MAINT			
	303 EQUIPMENT MAINT	660	583	77
	304 PROF. & SCIENTI			
	307 AG. CONSERVATIO			
	308 OTHER SUPPLIES	1,100	174	926
	309 PRINTING & BIND	12,600	13,078	(478)
	312 UNIFORMS & RELA			
	401 COMMUNICATIONS			
	402 RENTALS			
	403 UTILITIES			
	405 PROF & SCIENTIF	2,250		2,250
	406 OUTSIDE SERVICE	1,500		1,500
	407 INTRA-STATE TRA			
	408 ADVERTISING & P			
	410 DATA PROCESSING	4,400	1,973	2,427
	412 AUDITOR OF STAT			
	414 REIMBURSEMENTS	660	335	325
	501 EQUIPMENT	1,000	269	731
	602 OTHER EXPENSES			
	701 LICENSES			
	702 FEES			
	705 REFUNDS-OTHER			
	801 STATE AID			
	901 CAPITALS			
Totals ->		329,690	287,846	41,844

Reflects Downward Adjustments for Deappropriation

DNR DIVISION STATUS, 6/30/91

DIVISION	CLASS	JUNE YTD BUDGET	JUNE YTD ACTUAL	(OVER) UNDER
2000 COORDINTAION AND INFORMATION	101 PERSONAL SERVIC	1,627,543	1,571,744	55,799
	202 PERSONAL TRAVEL	54,500	23,005	31,495
	203 STATE VEHICLE O	10,916	9,746	1,170
	204 STATE VEHICLE D	16,610	14,940	1,670
	301 OFFICE SUPPLIES	82,280	71,386	10,894
	302 FACILITY MAINT	22,750	13,847	8,903
	303 EQUIPMENT MAINT	11,250	9,021	2,229
	304 PROF. & SCIENTI	20,000	18,596	1,404
	307 AG. CONSERVATIO	250	412	(162)
	308 OTHER SUPPLIES	36,975	46,091	(9,116)
	309 PRINTING & BIND	429,800	405,216	24,584
	312 UNIFORMS & RELA	2,850	312	2,538
	401 COMMUNICATIONS	11,500	13,341	(1,841)
	402 RENTALS	750	1,711	(961)
	403 UTILITIES	27,340	27,911	(571)
	405 PROF & SCIENTIF	105,000	13,467	91,533
	406 OUTSIDE SERVICE	88,010	73,523	14,487
	407 INTRA-STATE TRA			
	408 ADVERTISING & P	12,500	564	11,936
	410 DATA PROCESSING	24,980	13,190	11,790
	412 AUDITOR OF STAT			
	414 REIMBURSEMENTS			
	501 EQUIPMENT	45,750	3,824	(3,824)
	602 OTHER EXPENSES		37,244	8,506
	701 LICENSES			
	702 FEES			
	705 REFUNDS-OTHER			
	801 STATE AID			
	901 CAPITALS			
		2,538,154	2,369,091	169,063

YTD ESTIMATES REDUCED TO REFLECT DEAPPROPRIATION.

Environmental Protection Commission Minutes

July 1991

DNR DIVISION STATUS, 6/30/91

DIVISION	CLASS	JUNE YTD BUDGET	JUNE YTD ACTUAL	(OVER) UNDER
3000 ADMINISTRATIVE SERVICES DIV.	101 PERSONAL SERVIC	3,966,354	3,929,743	36,611
	202 PERSONAL TRAVEL	55,420	46,051	9,369
	203 STATE VEHICLE O	63,875	53,368	10,507
	204 STATE VEHICLE D	71,425	66,699	4,726
	301 OFFICE SUPPLIES	360,530	372,311	(11,781)
	302 FACILITY MAINT	1,640	1,079	561
	303 EQUIPMENT MAINT	41,849	41,813	36
	304 PROF. & SCIENTI			
	307 AG. CONSERVATIO			
	308 OTHER SUPPLIES	14,812	5,766	9,046
	309 PRINTING & BIND	24,925	13,753	11,172
	312 UNIFORMS & RELA	4,100	1,325	2,775
	401 COMMUNICATIONS	222,063	214,324	7,739
	402 RENTALS	1,585	374	1,211
	403 UTILITIES			
	405 PROF & SCIENTIF			
	406 OUTSIDE SERVICE	54,568	53,282	1,286
	407 INTRA-STATE TRA			
	408 ADVERTISING & P	1,490		1,490
	410 DATA PROCESSING	106,301	99,988	6,313
	412 AUDITOR OF STAT	80,000	81,398	(1,398)
	414 REIMBURSEMENTS	36,332	30,370	5,962
	501 EQUIPMENT	144,270	97,112	47,158
	602 OTHER EXPENSES			
	701 LICENSES	150		150
	702 FEES			
	705 REFUNDS-OTHER			
	801 STATE AID			
	901 CAPITALS			
		5,251,689	5,108,756	142,933

DNR DIVISION STATUS, 6/30/91

DIVISION	CLASS	JUNE YTD BUDGET	JUNE YTD ACTUAL	(OVER) UNDER
4000 PARKS, PRES. & RECREATION DIV.	101 PERSONAL SERVIC	5,496,865	5,215,863	281,002
	202 PERSONAL TRAVEL	90,894	64,072	26,822
	203 STATE VEHICLE O	207,487	180,421	27,066
	204 STATE VEHICLE D	227,758	222,045	5,713
	301 OFFICE SUPPLIES	44,074	34,326	9,748
	302 FACILITY MAINT	494,500	472,557	21,943
	303 EQUIPMENT MAINT	308,231	288,537	19,694
	304 PROF. & SCIENTI	1,000		1,000
	307 AG. CONSERVATIO	16,608	14,194	2,414
	308 OTHER SUPPLIES	32,892	34,719	(1,827)
	309 PRINTING & BIND	13,400	17,018	(3,618)
	312 UNIFORMS & RELA	13,704	6,578	7,126
	401 COMMUNICATIONS	82,020	84,616	(2,596)
	402 RENTALS	22,287	23,751	(1,464)
	403 UTILITIES	335,969	325,496	10,473
	405 PROF & SCIENTIF	52,750	37,398	15,352
	406 OUTSIDE SERVICE	186,250	175,102	11,148
	407 INTRA-STATE TRA			
	408 ADVERTISING & P	3,680	675	3,005
	410 DATA PROCESSING	6,445	2,639	3,806
	412 AUDITOR OF STAT			
	414 REIMBURSEMENTS	7,400	26,990	(19,590)
	501 EQUIPMENT	127,096	97,889	29,207
	602 OTHER EXPENSES	2,500	3,634	(1,134)
	701 LICENSES	2,697	285	2,412
	702 FEES			
	705 REFUNDS-OTHER			
	801 STATE AID			
	901 CAPITALS			
		7,776,507	7,328,805	447,702

YTD ESTIMATES REDUCED TO REFLECT DEAPPROPRIATION.

E91Jul-5

July 1991

Environmental Protection Commission Minutes

DNR DIVISION STATUS, 6/30/91

DIVISION	CLASS	JUNE YTD BUDGET	JUNE YTD ACTUAL	(OVER) UNDER
5000 FORESTRY DIVISION	101 PERSONAL SERVIC	1,837,010	1,841,087	(4,077)
	202 PERSONAL TRAVEL	29,550	30,274	(724)
	203 STATE VEHICLE O	71,120	69,407	1,713
	204 STATE VEHICLE D	110,280	94,410	15,870
	301 OFFICE SUPPLIES	16,100	22,401	(6,301)
	302 FACILITY MAINT	27,700	37,008	(9,308)
	303 EQUIPMENT MAINT	53,440	50,603	2,837
	304 PROF. & SCIENTI			
	307 AG. CONSERVATIO	104,400	81,366	23,034
	308 OTHER SUPPLIES	14,300	31,051	(16,751)
	309 PRINTING & BIND	9,660	10,689	(1,029)
	312 UNIFORMS & RELA	13,800	7,923	5,877
	401 COMMUNICATIONS	28,860	30,017	(1,157)
	402 RENTALS	15,180	24,065	(8,885)
	403 UTILITIES	29,250	27,867	1,383
	405 PROF & SCIENTIF	19,000	46,020	(27,020)
	406 OUTSIDE SERVICE	31,650	44,334	(12,684)
	407 INTRA-STATE TRA			
	408 ADVERTISING & P	900	697	203
	410 DATA PROCESSING	11,600	1,681	9,919
	412 AUDITOR OF STAT			
	414 REIMBURSEMENTS		121	(121)
	501 EQUIPMENT	41,400	27,308	14,092
	602 OTHER EXPENSES			
	701 LICENSES	270	230	40
	702 FEES			
	705 REFUNDS-OTHER			
	801 STATE AID	94,000	80,832	13,168
	901 CAPITALS			
		2,559,470	2,559,391	79

DNR DIVISION STATUS, 6/30/91

DIVISION	CLASS	JUNE YTD BUDGET	JUNE YTD ACTUAL	(OVER) UNDER
6000 ENERGY & GEOLOGICAL RESOURCES	101 PERSONAL SERVIC	2,430,815	2,363,641	67,174
	202 PERSONAL TRAVEL	80,232	52,107	28,125
	203 STATE VEHICLE O	19,774	16,878	2,896
	204 STATE VEHICLE D	29,504	28,740	764
	301 OFFICE SUPPLIES	6,961	13,316	(6,355)
	302 FACILITY MAINT	1,135	723	412
	303 EQUIPMENT MAINT	29,395	33,894	(4,499)
	304 PROF. & SCIENTI	2,945	13,274	(10,329)
	307 AG. CONSERVATIO			
	308 OTHER SUPPLIES	28,077	33,739	(5,662)
	309 PRINTING & BIND	46,531	31,185	15,346
	312 UNIFORMS & RELA			
	401 COMMUNICATIONS	17,569	14,054	3,515
	402 RENTALS	2,275	2,100	175
	403 UTILITIES	12,294	11,932	362
	405 PROF & SCIENTIF	1,182,067	1,138,171	43,896
	406 OUTSIDE SERVICE	18,083	15,516	2,567
	407 INTRA-STATE TRA			
	408 ADVERTISING & P			
	410 DATA PROCESSING	14,748	12,148	2,600
	412 AUDITOR OF STAT			
	414 REIMBURSEMENTS	5,847	5,488	359
	501 EQUIPMENT	91,997	60,985	31,012
	602 OTHER EXPENSES			
	701 LICENSES			
	702 FEES			
	705 REFUNDS-OTHER			
	801 STATE AID			
	901 CAPITALS			
		4,020,249	3,847,891	172,358

YTD ESTIMATES REDUCED TO REFLECT DEAPPROPRIATION.

E91Jul-6

Environmental Protection Commission Minutes

July 1991

DNR DIVISION STATUS, 6/30/91

DIVISION	CLASS	JUNE YTD BUDGET	JUNE YTD ACTUAL	(OVER) UNDER
7000 ENVIRONMENTAL PROTECTION DIV.	101 PERSONAL SERVIC	6,381,196	6,036,795	344,401
	202 PERSONAL TRAVEL	174,172	107,118	67,054
	203 STATE VEHICLE O	52,000	35,527	16,473
	204 STATE VEHICLE D	63,000	56,505	6,495
	301 OFFICE SUPPLIES	39,225	55,210	(15,985)
	302 FACILITY MAINT	2,500	2,394	106
	303 EQUIPMENT MAINT	12,500	14,701	(2,201)
	304 PROF. & SCIENTI	6,450	24,938	(18,488)
	307 AG. CONSERVATIO			
	308 OTHER SUPPLIES	33,250	22,638	10,612
	309 PRINTING & BIND	54,837	7,213	47,624
	312 UNIFORMS & RELA	6,400	3,203	3,197
	401 COMMUNICATIONS	44,100	38,982	5,118
	402 RENTALS	47,200	49,862	(2,662)
	403 UTILITIES	14,298	11,893	2,405
	405 PROF & SCIENTIF	1,421,474	647,499	773,975
	406 OUTSIDE SERVICE	43,417	40,376	3,041
	407 INTRA-STATE TRA			
	408 ADVERTISING & P	5,250	2,952	2,298
	410 DATA PROCESSING	168,000	113,371	54,629
	412 AUDITOR OF STAT			
	414 REIMBURSEMENTS	17,306	15,121	2,185
	501 EQUIPMENT	581,528	290,921	290,607
	602 OTHER EXPENSES	200		200
	701 LICENSES		70	(70)
	702 FEES			
	705 REFUNDS-OTHER			
	801 STATE AID			
	901 CAPITALS			
		9,168,303	7,577,289	1,591,014

DNR DIVISION STATUS, 6/30/91

DIVISION	CLASS	JUNE YTD BUDGET	JUNE YTD ACTUAL	(OVER) UNDER
8000 FISH AND WILDLIFE DIVISION	101 PERSONAL SERVIC	10,833,492	10,802,684	30,808
	202 PERSONAL TRAVEL	370,983	304,460	66,523
	203 STATE VEHICLE O	502,691	443,740	58,951
	204 STATE VEHICLE D	627,883	665,080	(37,197)
	301 OFFICE SUPPLIES	240,431	234,113	6,318
	302 FACILITY MAINT	268,040	226,244	41,796
	303 EQUIPMENT MAINT	305,670	328,581	(22,911)
	304 PROF. & SCIENTI			
	307 AG. CONSERVATIO	273,790	234,451	39,339
	308 OTHER SUPPLIES	115,440	91,768	23,672
	309 PRINTING & BIND	167,269	86,582	80,687
	312 UNIFORMS & RELA	94,158	42,027	52,131
	401 COMMUNICATIONS	157,001	165,437	(8,436)
	402 RENTALS	41,156	39,360	1,796
	403 UTILITIES	204,678	188,272	16,406
	405 PROF & SCIENTIF	176,360	118,180	58,180
	406 OUTSIDE SERVICE	123,393	90,251	33,142
	407 INTRA-STATE TRA	4,641		4,641
	408 ADVERTISING & P	16,200	20,036	(3,836)
	410 DATA PROCESSING	39,807	49,265	(9,458)
	412 AUDITOR OF STAT			
	414 REIMBURSEMENTS	102,600	105,511	(2,911)
	501 EQUIPMENT	260,756	173,354	87,402
	602 OTHER EXPENSES	800	1,062	(262)
	701 LICENSES	120	275	(155)
	702 FEES			
	705 REFUNDS-OTHER			
	801 STATE AID			
	901 CAPITALS			
		14,927,359	14,410,733	516,626

YTD ESTIMATES REDUCED TO REFLECT DEAPPROPRIATION.

E91Jul-7

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DNR DIVISION STATUS, 6/30/91

BUREAU	CLASS	JUNE BUDGET YTD	JUNE ACTUAL YTD	(OVER) UNDER
9000 WASTE MANAGEMENT AUTHORITY	101 PERSONAL SERVIC	470,220	469,065	1,155
9000 WMAD DIVISION	202 PERSONAL TRAVEL	51,450	33,340	18,110
	203 STATE VEHICLE O	500		500
	204 STATE VEHICLE D			
	301 OFFICE SUPPLIES	16,960	4,289	12,671
	302 FACILITY MAINT			
	303 EQUIPMENT MAINT		226	(226)
	304 PROF. & SCIENTI			
	307 AG. CONSERVATIO			
	308 OTHER SUPPLIES	11,000	23,263	(12,263)
	309 PRINTING & BIND	52,000	54,538	(2,538)
	312 UNIFORMS & RELA			
	401 COMMUNICATIONS	3,960	125	3,835
	402 RENTALS	300		300
	403 UTILITIES			
	405 PROF & SCIENTIF	184,660	73,390	111,270
	406 OUTSIDE SERVICE	22,620	4,562	18,058
	407 INTRA-STATE TRA			
	408 ADVERTISING & P			
	410 DATA PROCESSING	4,320	2,808	1,512
	412 AUDITOR OF STAT	50		50
	414 REIMBURSEMENTS	12,300	8,213	4,087
	501 EQUIPMENT	15,000	15,525	(525)
	602 OTHER EXPENSES			
	701 LICENSES			
	702 FEES			
	705 REFUNDS-OTHER			
	801 STATE AID			
	901 CAPITALS			
		845,340	689,344	82,010

Reflects Downward Adjustments for Deappropriation

Mr. Slatterly stated that final touches are being made on the FY 92 budget and it is hoped that a status printout will be available by the end of the week. He explained details of the monthly financial status report.

Brief discussion followed.

This was an informational item; no action was required.

LANDFILL ALTERNATIVES GRANT APPLICATIONS

Teresa Hay, Division Administrator, Waste Management Authority Division, presented the following item.

Fifty-three grant applications were received by the first Monday in June 1991, for consideration in the latest round of the Landfill Alternative Grant program. Funding requests totalled \$7.6 million dollars. \$1.9 million dollars are available for allocation.

A summary of the proposals is attached for the Commission's information. Proposal reviews will be completed by the end of July and awards will be announced as soon as the proposed grantees have been notified. The first grant contracts will come to the Commission for approval in September.

(Applications are shown on the following 10 pages)

**Landfill Alternatives Grants
Applications Received June, 1991**

APPLICATION #1: Bremer County and City of Waverly

GRANT REQUEST: \$262,000

DESCRIPTION: For a joint expansion of waste reduction and recycling activities, to provide curbside collection of recyclables in Waverly and dropoff collection in all other cities in the county.

APPLICATION #2: Comprehensive Systems, Inc.

GRANT REQUEST: \$263,378

DESCRIPTION: To obtain additional equipment and building to expand existing recycling program in Charles City, Floyd County, and the surrounding communities.

APPLICATION #3: Leonard Foutch

GRANT REQUEST: \$50,000

DESCRIPTION: For building, equipment, and labor to repair and resell used air conditioners, refrigerators, and freezers in the Cedar Rapids area.

APPLICATION #4: R-Business Recyclers, Inc.

GRANT REQUEST: \$296,410

DESCRIPTION: To develop a material recovery facility/ community drop-off center. Project to initially serve Black Hawk County, with later expansion to the rest of the Iowa Northland Regional Council of Governments counties: Bremer, Buchanan, Butler, Chickasaw, and Grundy.

APPLICATION #5: Vrandenburg Enterprises, Inc.

GRANT REQUEST: \$80,000

DESCRIPTION: For a conveying grinding separator and personnel for recovering and recycling thermoplastics in Lee, Henry, and Johnson counties.

APPLICATION #6: Johnson County Recycling Center

GRANT REQUEST: \$186,990

DESCRIPTION: To establish a recycling facility for glass, plastic, and metal, to serve Iowa, Johnson, and Jones counties.

APPLICATION #7: Iowa State University, Facilities Planning & Management

GRANT REQUEST: \$36,072

DESCRIPTION: For site preparation, building and equipment, to collect and compost yard waste from ISU buildings and grounds and reuse the product for grounds application.

APPLICATION #8: Midwest Recycling, Inc.

GRANT REQUEST: \$300,000

DESCRIPTION: For equipment and building renovation to produce crumb rubber from tires in the Fort Dodge area.

APPLICATION #9: Tom Schechinger

GRANT REQUEST: \$17,115

DESCRIPTION: To establish a conditioning facility in Harlan to process and store grass clippings for livestock feed in Harlan and the surrounding rural area.

APPLICATION #10: Concrete Recyclers, Inc.

GRANT REQUEST: \$300,000

DESCRIPTION: For equipment for a portable recycling system for concrete and asphalt rubble. Rubble would be recycled as construction aggregate material. System would be initially established in Cedar Rapids.

APPLICATION #11: Creston Sanitation, Inc.

GRANT REQUEST: \$203,400

DESCRIPTION: To construct and equip a regional recycling and collection center for paper, glass, plastic, motor oil, white goods, and tires. Adair, Adams, Union, Clarke, Decatur, Ringgold, Taylor and parts of Lucas, Montgomery, and Page counties, and the cities of Creston and Corning, are proposed to be serviced.

APPLICATION #12: Coe College

GRANT REQUEST: \$10,390

DESCRIPTION: To purchase containers and a scale to implement a campus-wide recycling program for paper, glass, metals, and #1 and #2 grade plastic. Coe College is located in Cedar Rapids.

APPLICATION #13: Iowa Veterans Home

GRANT REQUEST: \$3,746

DESCRIPTION: To purchase a waste metal can crusher and four wheeled containers for the purpose of entering into a long-term can recycling agreement with a metal scrap dealer or recycling company. Cans would be recycled from the Iowa Veterans Home Dietary and Nursing departments.

APPLICATION #14: Iowa Veterans Home

GRANT REQUEST: \$5,395

DESCRIPTION: To purchase a waste cardboard baler for the purpose of entering into a long-term cardboard recycling agreement with City Carton Company. Cardboard would be recycled from the Iowa Veterans Home.

APPLICATION #15: Milford Iowa Kiwanis

GRANT REQUEST: \$22,495

DESCRIPTION: To purchase paper shredding and baling equipment to expand their current paper recycling project. The baled paper would be sold locally for animal bedding. The communities of Arnolds Park, Milford, Okoboji, Orleans, Spirit Lake, Terril, Wahpeton, West Okoboji, and scattered rural residents of Dickinson County would participate.

APPLICATION #16: Van Beek, Inc.

GRANT REQUEST: \$280,000

DESCRIPTION: For engineering, building, land, and equipment to process tires into powdered form. Tires may be accepted from the entire state.

APPLICATION #17: Heartland Environmental, Inc.

GRANT REQUEST: \$300,000

DESCRIPTION: For equipment and sampling to produce a feasibility study on using plasma torch pyrolysis for solid waste. Study would be performed in Lee County (Keokuk).

APPLICATION #18: Wells' Blue Bunny

GRANT REQUEST: \$300,000

DESCRIPTION: To construct and implement a materials recovery and recycling program for corrugated and plastics along with a combustion with energy recovery system for paper, packaging products, non-recyclable corrugated, and wood pallets. The City of LeMars and Wells Blue Bunny in Sioux Center would participate.

APPLICATION #19: Dordt College

GRANT REQUEST: \$40,000

DESCRIPTION: To purchase pollution control equipment to enable the Dordt burner in Sioux Center to use dRDF.

APPLICATION #20: Siouxland Interstate Metropolitan Planning Council (SIMPCO)

GRANT REQUEST: \$12,250

DESCRIPTION: Education program, including four booklets and school competition, to increase public awareness of reduction, reuse, and recycling, and to identify possibilities for recycling in the region. Region: Woodbury, Monona, Plymouth Counties, IA; portions of Dakota County, NE; Union County, SD; City of Sioux City, IA.

APPLICATION #21: Keokuk Steel Castings, Inc.

GRANT REQUEST: \$300,000

DESCRIPTION: For construction and installation of a thermal sand reclamation system for Keokuk Steel Casting's spent foundry sand.

APPLICATION #22: Marian Health Center

GRANT REQUEST: \$86,350

DESCRIPTION: To expand the "Our Home, Earth" program, with an infectious waste reduction project, procurement of recycled products, and in-house separation, cleaning, and processing of recyclables for the Marian Health Center in Sioux City.

APPLICATION #23: PalTech Enterprises

GRANT REQUEST: \$242,843

DESCRIPTION: For land, building, and equipment to recondition wooden pallets and to process wood waste material and scrap pallets through a tub grinder. Material will be used as mulch, livestock bedding, etc. Initially, in eastern part of Iowa, within a 100 mile radius of Central City.

APPLICATION #24: Iowa Oil Filter Recycling Company

GRANT REQUEST: \$34,590

DESCRIPTION: For containers and equipment to expand recycling program for used oil filters to the entire state. The facility is in Grimes.

APPLICATION #25: Kirk McCollough

GRANT REQUEST: \$7,624

DESCRIPTION: For an air exhaust test of briquettes made from grey/iron ductile/iron waste foundry sand. The foundry is located in Webster City.

APPLICATION #26: Resource Recycle

GRANT REQUEST: \$47,520

DESCRIPTION: To enlarge Resource Recycle's plant to facilitate expansion into 20 southwest Iowa counties. The firm presently operates in Adams, Decatur, Ringgold, and Taylor counties; expansion is desired from the Missouri River east to Interstate 35 and from the Missouri-Iowa border north to Interstate 80.

APPLICATION #27: Organic Technologies Corporation

GRANT REQUEST: \$269,265

DESCRIPTION: To construct a regional yard waste collection and composting facility for Madison, Warren, Dallas, and Polk counties.

APPLICATION #28: RPM Manufacturing, Inc.

GRANT REQUEST: \$250,000

DESCRIPTION: To purchase equipment to recycle buffing dust (rubber particles accumulated from the recapping of used tires) into rubber products. The plant would be located in Sioux City.

APPLICATION #29: Youth and Family Enrichment Program

GRANT REQUEST: \$33,000

DESCRIPTION: For equipment and supplies to recycle milk jugs, plastic, glass, metal, wood, toys, clothing, and newspaper, and to teach composting. Adair and Guthrie counties would be involved.

APPLICATION #30: Delaware County Vocational Services Center

GRANT REQUEST: \$134,589

DESCRIPTION: For equipment to collect from the county and process for recycling glass, newsprint, and other paper, at the Delaware County Vocational Services Center.

APPLICATION #31: City of Grinnell

GRANT REQUEST: \$75,600

DESCRIPTION: To purchase equipment for a recycling center to serve Grinnell and possibly Poweshiek County.

APPLICATION #32: Ames Area Recycling Center

GRANT REQUEST: \$76,010

DESCRIPTION: To hire a recycling consultant and purchase equipment to expand current recycling services to include all of Story County.

APPLICATION #33: Thomas M. Runde

GRANT REQUEST: \$300,000

DESCRIPTION: To collect and organize the solid waste in Dubuque County, then to construct objects, such as clocks and art, from the waste materials.

APPLICATION #34: HW2 Remediation Services, Inc.

GRANT REQUEST: \$283,774

DESCRIPTION: To field test a mobile, on-site incinerator for hydrocarbon soil, using a remediation protocol designed for IDOT. HW2 is located in Iowa City.

APPLICATION #35: Zalkin, Inc. dba Peerless Wiping Cloth

GRANT REQUEST: \$300,000

DESCRIPTION: To purchase a building and equipment in Council Bluffs to recycle used clothing.

APPLICATION #36: DAC, Inc.

GRANT REQUEST: \$79,200

DESCRIPTION: To build and equip a recycling center for glass, cardboard, paper, plastics, metal, and newspaper in Jackson County.

APPLICATION #37: Mahaska County

GRANT REQUEST: \$166,567

DESCRIPTION: For purchasing equipment and building improvements for the Mahaska Recycling Center, which primarily serves Mahaska County, and also serves Chariton, Newton, Poweshiek, and Monroe counties.

APPLICATION #38: Nishna Sanitary Services, Inc.

GRANT REQUEST: \$200,000

DESCRIPTION: To build, equip, and operate a recycling center to serve Montgomery, Page, Fremont, and Mills counties.

APPLICATION #39: Andrew Pallet Company, Inc.

GRANT REQUEST: \$124,823

DESCRIPTION: For building and equipment to recycle pallet waste for resale. Facility located in Des Moines.

APPLICATION #40: Bell Consulting

GRANT REQUEST: \$8,675

DESCRIPTION: To develop a school curriculum for waste management, with emphasis on waste reduction, to be initially used by schools in Crawford, Carroll, and Marshall counties.

APPLICATION #41: Heartland Recycling Company

GRANT REQUEST: \$213,022

DESCRIPTION: To develop a compost facility for Hardin, Butler, and Wright counties, with potential for service the following year to Franklin, Hamilton, and Grundy counties.

APPLICATION #42: Hawkeye Wood Shavings, Inc.

GRANT REQUEST: \$300,000

DESCRIPTION: To add another grinder to their present facility for recycling wood and cardboard waste into mulch and livestock bedding. Facility is located in Des Moines.

APPLICATION #43: Cerro Gordo County Area Solid Waste Agency

GRANT REQUEST: \$140,000

DESCRIPTION: To build and equip a compost site that would serve Cerro Gordo County and 11 cities in other counties.

APPLICATION #44: Dodd's Trash Hauling and Recycling, Inc.

GRANT REQUEST: \$19,855

DESCRIPTION: For equipment and staff to expand their recycling operation. The facility is in Newton; the operation would serve Jasper County and possibly other parts of South Central Iowa.

APPLICATION #45: Douglas J. Kruger

GRANT REQUEST: \$24,875

DESCRIPTION: To test performance of a newly developed compost reactor by distributing a limited quantity to the public for a performance evaluation in Blackhawk County.

APPLICATION #46: The Home Metal Recyclers

GRANT REQUEST: \$300,000

DESCRIPTION: To provide no-cost collection and a drop-off facility for white goods, metals, plastics, automotive batteries, and glass food and beverage containers in Linn County.

APPLICATION #47: Integrated Environmental Systems

GRANT REQUEST: \$72,152

DESCRIPTION: To site and operate a facility to manufacture fuel from mixed waste paper that can be co-fired with coal in boiler systems located in Scott and Muscatine counties.

APPLICATION #48: Arthur W. Moellering

GRANT REQUEST: \$88,450

DESCRIPTION: To build and equip a facility to recycle waste paper for livestock bedding in Clayton County.

APPLICATION #49: Northwest Iowa Area Solid Waste Agency

GRANT REQUEST: \$69,395

DESCRIPTION: To expand its material recovery program, presently serving three cities as demonstration sites, to include the counties of Sioux, O'Brien, Osceola, Clay, and Lyon.

APPLICATION #50: Northwest Iowa Area Solid Waste Agency

GRANT REQUEST: \$53,750

DESCRIPTION: To construct and operate a facility to produce crumb rubber. Would serve Sioux, O'Brien, Osceola, Clay, and Lyon counties.

APPLICATION #51: Northwest Iowa Area Solid Waste Agency

GRANT REQUEST: \$15,000

DESCRIPTION: To construct a storage building for recycled materials. Building would be located in Sioux County.

APPLICATION #52: Reliance Industries, Inc.

GRANT REQUEST: \$18,000

DESCRIPTION: For a new wood shaving mill that would expand the company's capacity to reprocess wood waste into bagged livestock bedding. Wood waste would be reprocessed from woodworking plants in Keokuk and Jefferson counties.

APPLICATION #53: Environmental Recycling Corporation

GRANT REQUEST: \$300,000

DESCRIPTION: To establish a materials recovery facility that would serve residential and commercial sectors in Dubuque and surrounding counties.

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Ms. Hay briefly explained the grant applications and reviewed criteria used in awarding grants.

Charlotte Mohr asked if there is map showing the geographic locations of award recipients to date.

Ms. Hay stated that this information is available and she will provide it to the Commission next month.

Discussion followed regarding the various grant requests and duplication of some projects.

This was an informational item; no action was required.

TOXIC CLEANUP DAYS - FALL 1991

Teresa Hay, Division Administrator, Waste Management Authority Division, presented the following item.

Three host sites have been selected for the Fall 1991 toxic cleanup events:

Winneshiek County: Decorah - September 15

Black Hawk County: Date not set

Poweshiek/Jasper Counties: Newton and Grinnell - October 5

All local hosts sites are contributing funds to assist in the cost of the events and all collection days will be by appointment only.

In addition to the above listed events, Dubuque will be hosting an event which they will pay for and the department will provide technical assistance only. No date has been set for the Dubuque event, which will not require appointments.

Ms. Hay stated that the Black Hawk County event will be in Waterloo and the date is not set at this time. She noted that all events are a one day event and will be by appointment. Dubuque is the only one that will not require appointments.

This was an informational item; no action was required.

MONTHLY REPORTS

Allan Stokes, Division Administrator, Environmental Protection Division, presented the following item.

The following monthly reports are enclosed with the agenda for the Commission's information.

1. Rulemaking Status Report
2. Variance Report
3. Hazardous Substance/Emergency Response Report
4. Enforcement Status Report
5. Contested Case Status Report

Members of the department will be present to expand upon these reports and answer questions.

(Reports are shown on the following 13 pages)

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MONTHLY VARIANCE REPORT						
Month: June, 1991						
o.	Facility	Program	Engineer	Subject	Decision	Date
1.	City of Laurel	Wastewater Construction	Van Winkle & Jacob Engineering, Inc.	ForceMain Velocity	Approved	06/03/91
2.	City of New Hampton	Wastewater Construction	Brice-Petrides Donohue Co.	Sludge Holding Tank-Aeration & Mixing	Approved	06/04/91
3.	City of Hillsboro	Wastewater Construction	French-Reneker-Associates, Inc.	Design Flow-Lagoons	Denied	06/14/91
4.	City of Lockridge	Wastewater Construction	French-Reneker-Associates, Inc.	Design Flow-Lagoons	Denied	06/14/91
5.	City of Rome	Wastewater Construction	French-Reneker-Associates, Inc.	Design Flow-Lagoons	Denied	06/14/91
						Page : 1 / 1

IOWA DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL PROTECTION COMMISSION RULEMAKING STATUS REPORT July 1, 1991

PROPOSAL	NOTICE TO COMMISSION	NOTICE PUBLISHED	RULES REVIEW COMMITTEE	HEARING	SUMMARY OF COMMENTS & RECOMMENDATIONS TO COMMISSION	RULES ADOPTED	RULES PUBLISHED	RULE EFFECTIVE
1. Ch. 61 - Phase III Stream Use Designations	1/22/91	2/20/91	3/11/91	3/12/91 3/13/91 3/14/91 3/15/91	7/15/91	*7/15/91	*8/07/91	*9/11/91
2. Ch. 61 - Corps of Engineers Nationwide Permits	6/17/91	7/10/91	*8/ /91	*7/31/91- *8/05/91	*9/16/91	*9/16/91	*10/01/91	*11/20/91
4. Ch. 91 - Criteria for Award of Grants	4/15/91	5/15/91	6/12/91	6/05/91 6/06/91 6/07/91	7/15/91	*7/15/91	*8/07/91	*9/11/91
5. Ch. 92 - State Revolving Fund	4/15/91	5/15/91	6/12/91	6/05/91 6/06/91 6/07/91	7/15/91	*7/15/91	*8/07/91	*9/11/91

*Projected

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TOPIC: Report of Hazardous Conditions

During the period June 1, 1991 through June 30, 1991, reports of 116 hazardous conditions were forwarded to the Central Office. Two incidents are highlighted below. A general summary and count by field office is attached. These do not include releases from underground storage tanks, which are reported separately.

Date Reported and County	Description: Material, Amount, Date of Incident, Cause, Location, Impact	Responsible Party	Response and Corrective Actions
06/05/91 Palo Alto	A farmer noticed discoloration on the ground near a pipeline carrying ammonia. A small leak was discovered in a weld. Less than 100 pounds of ammonia were released. There was slight damage to nearby crops, but no injuries occurred. This condition was discovered on 6/5/91.	Gulf Central Pipeline P.O. Box 227 Herman, MO	When the pipeline was unearthed, a small leak was discovered in a weld. The leak was repaired to DOT specifications.
06/11/91 Pocahontas	On 6/11/91, 120 gallons of Passport herbicide leaked onto a street because a valve on a portable tank was not completely closed. The material did not reach a storm sewer or any surface waters.	Cargill Box 220 Fonda, IA	The material was absorbed with oil dry. The area was then scrubbed with soap and water and oil dry was reapplied. The contaminated oil dry was land applied.

NUMBERS IN PARENTHESES REPRESENT REPORTS FOR THE SAME PERIOD IN FISCAL YEAR 1990

Substance Type					Mode					
Month	Total # of Incidents	Petroleum Product	Agri. Chemical	Other Chemicals and Substances	Handling and Storage	Pipeline	Highway Incident	RR Incident	Fire	Other
Oct.	112(89)	69(62)	7(10)	36(17)	70(52)	0(3)	25(10)	1(1)	1(1)	15(22)
Nov.	69(57)	36(36)	11(10)	22(17)	35(52)	0(3)	15(10)	4(2)	1(0)	14(5)
Dec.	85(65)	61(43)	14(4)	10(18)	37(32)	1(3)	23(9)	1(3)	1(2)	22(16)
Jan.	56(104)	31(76)	7(6)	18(22)	35(72)	1(2)	9(16)	1(4)	1(3)	9(7)
Feb.	77(69)	43(49)	7(7)	27(13)	47(45)	1(2)	14(13)	2(1)	2(1)	11(7)
March	82(104)	51(76)	10(6)	21(22)	43(72)	3(2)	17(16)	3(4)	0(3)	16(7)
April	85(132)	46(67)	22(46)	17(19)	36(92)	2(2)	25(12)	1(5)	0(2)	21(19)
May	162(150)	54(69)	67(60)	41(21)	79(113)	3(1)	47(17)	3(3)	1(5)	29(12)
June	116(121)	51(47)	46(27)	19(47)	52(79)	1(2)	42(27)	0(1)	0(3)	21(9)

Total Number Of Incidents Per Field Office This Period:

1	2	3	4	5	6
19	16	13	14	31	23

REPORTS OF RELEASES FROM UNDERGROUND STORAGE TANKS

During the period of June 1, 1991 through June 30, 1991, the following number of releases from underground storage tanks were identified.

53 (139)

The number in parentheses represents the number of releases during the same period in Fiscal Year 1990.

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The following new enforcement actions were taken last month:

Name, Location and Field Office Number	Program	Alleged Violation	Action	Date
Timber Valley Estates MHP, Marshalltown (5)	Drinking Water	MCL - Bacteria; Public Notice	Order	5/31/91
Wayland Water Supply (6)	Drinking Water	Monitoring/Reporting- Other Inorganics; Public Notice	Order/Penalty	6/04/91
Bradford House, Nashua (1)	Drinking Water	Monitoring/Reporting- Nitrate; Public Notice	Order/Penalty	6/11/91
Kit Kat Klub, Inc., d/b/a Eagle Center Tap, Waterloo (1)	Drinking Water	Monitoring/Reporting- Nitrate; Public Notice	Order/Penalty	6/11/91
Kalmes Store, St. Donatus (1)	Drinking Water	Monitoring/Reporting- Nitrate; Public Notice	Order/Penalty	6/11/91
Long Branch Tavern, Mormouth (1)	Drinking Water	Monitoring/Reporting- Nitrate; Public Notice	Order/Penalty	6/11/91
Terry Kolthoff d/b/a Cain Oil Company, Lenox (4)	Underground Tank	Site Assessment	Order	6/11/91
Ken Cahill d/b/a Mosica Arabians, North Liberty (5)	Underground Tank	Closure Investigation	Order	6/11/91
Colony Haus Restaurant, Williamsburg (6)	Drinking Water	Monitoring/Reporting- Nitrate; Public Notice	Order/Penalty	6/11/91
Mike's Prairie Home, Ollie (6)	Drinking Water	Operation Without Permit	Order	6/11/91
Country Estates Mobile Home Court, Council Bluffs (4)	Drinking Water	Monitoring/Reporting- Bacteria	Referred to AG	6/17/91
Orchard, City of (2)	Drinking Water	Monitoring/Reporting; MCL-Bacteria; Opera- tional Violations; Operator Certification	Referred to AG	6/17/91
Gaul's Water Commission, Burlington (6)	Drinking Water	Monitoring/Reporting- Inorganics	Referred to AG	6/17/91
Buffalo Bill Estates, Inc., Comanche (6)	Drinking Water	Monitoring/Reporting- Nitrate	Referred to AG	6/17/91
R.V. Hopkins, Inc., Davenport (6)	Air Quality	Emission Standards	Referred to AG	6/17/91
Carmen M. Poulsen, Johnson County (6)	Air Quality Solid Waste	Open Burning Illegal Disposal	Referred to AG	6/17/91
Chicago & North Western Transportation Co., Pottawattamie County (4)	Solid Waste	Illegal Disposal	Amended Order	6/19/91
Dana Water Works (4)	Drinking Water	Monitoring/Reporting- Other Inorganics	Order/Penalty	6/19/91
M & W Mobile Home Park, Muscatine (6)	Wastewater	Monitoring/Reporting; Discharge Limits; Operational Violations	Order/Penalty	6/19/91
Cozy Cafe, Liberty Center (5)	Drinking Water	Monitoring/Reporting- Bacteria	Amended Order	6/19/91
David Fluth Swine Operation, Wayne County (5)	Wastewater	Prohibited Discharge	Order	6/19/91
Agency, City of (6)	Wastewater	Prohibited Discharge	Amended Order	6/19/91
Northwest Lagoon Pumping Contractors, Marcus (3)	Wastewater	Prohibited Discharge	Order/Penalty	6/19/91

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Name, Location and Field Office Number	Program	Alleged Violation	Action	Date
Chicago & North Western Transportation Co.; Dennis Bell; Wade Sheesley; Phillips Petroleum Co.; Amoco Oil Co., Hamilton County (2)	Hazardous Condition	Remedial Action	Order	6/19/91
Mason City Iron and Metal Co., Mason City (2)	Air Quality	Construction Without Permit	Order/Penalty	6/19/91
Andrews Prestressed Concrete, Inc., Cerro Gordo County (2)	Solid Waste	Illegal Disposal	Order/Penalty	6/19/91
Ma & Pa Stores, Inc. Indianola (5)	Underground Tank	Site Assessment	Order	6/19/91
Lowell's Service, West Des Moines (5)	Underground Tank	Site Assessment	Amended Order	6/19/91
Scott Henrichs d/b/a Scott's 66, Allison (2)	Underground Tank	Site Assessment	Order	6/19/91
Wilbur McNear d/b/a McNear Oil Co.; Dennis Stoner; Jack and Betty Hawn, Woodbine (4)	Underground Tank	Site Assessment	Order	6/19/91
Jack Rupp d/b/a Rupp Tire Shop, Ida Grove (3)	Underground Tank	Site Assessment	Order	6/19/91
Doolittle Oil Co., Inc., Ames (5)	Underground	Site Assessment	Order	6/19/91
Go-Tane Service Station, Keokuk (6)	Underground Tank	Closure Investigation	Order	6/19/91
Moorhead, City of (4)	Drinking Water	MCL - Bacteria; Public Notice	Order	6/24/91
Bee Line Company, Bettendorf (6)	Drinking Water	Monitoring/Reporting- Bacteria, Nitrate	Order/Penalty	6/24/91
Camp Iodiseca, Solon (6)	Drinking Water	MCL - Bacteria	Order	6/25/91
Alter Trading Corporation, Davenport (6)	Solid Waste	Compliance Schedule	Amended Order	6/25/91
American Recycling, Inc., Council Bluffs (4)	Air Quality	Construction Without Permit	Order/Penalty	6/25/91
Iowa Farm Automation; City of Stanley (1)	Underground Tank	Site Assessment	Order	6/25/91

Summary of Administrative Penalties

The following administrative penalties are due:

NAME/LOCATION	PROGRAM	AMOUNT	DUE DATE
John Dennis and Kirk Knox (Audubon County)	SW	300	2-18-91
Wagon Wheel (Monticello)	WS	330	5-13-91
Roy Long (Knoxville)	SW	300	6-01-91
Honey Creek Camping Resort (Crescent)	WS	245	6-13-91
*Folletts Tavern (Camanche)	WS	375	6-25-91
Merle Adams (Hardin Co.)	SW	1,000	7-01-91
Hill Top Subdivision #1 (Muscatine)	WS	100	7-08-91
AG Processing, Inc. (Mason City)	AQ	400	7-17-91
Rockwell International Corp. (Decorah)	AQ	1,000	7-17-91
Kingdom Hall (Elkader)	WS	200	7-31-91
The Barn (Sherrill)	WS	200	7-31-91

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Fred R. Thomas/Fred R. Thomas, Jr. d/b/a Clair-View Acres Store (Delhi)	WS	1,000	8-04-91
Twin View Heights (Solon)	WS	200	8-04-91
Hornick Water Supply	WS	200	8-04-91
Fibre Body Industries, Inc. (Swea City)	AQ	1,000	8-04-91
Milo Public Water Supply	WS	200	8-04-91
Clinton County Care Facility (Clinton)	WS	200	8-05-91
Oakwood Park Water Assoc. (Clear Lake)	WS	500	8-05-91
Ringgold County Hospital (Mt. Ayr)	AQ	1,000	8-06-91
Wayland Water Supply	WS	200	8-07-91
Bradford House (Nashua)	WS	100	8-12-91
Kit Kat Klub Inc. d/b/a Eagle Center Tap (Waterloo)	WS	100	8-12-91
Long Branch Tavern (Monmouth)	WS	200	8-12-91
Kalmes Store (St. Donatus)	WS	100	8-13-91
M & W Mobile Home Park (Muscatine)	WW	700	8-21-91
Dana Water Works	WS	100	8-21-91
Andrews Prestressed Concrete, Inc. (Cerro Gordo Co.)	SW	1,000	8-22-91
Mason City Iron and Metal Co. (Mason City)	AQ	1,000	8-24-91
Northwest Lagoon Pumping Contractors (Marcus)	WW	1,000	8-24-91
Bee Line Company (Bettendorf)	WS	100	-----
American Recycling, Inc. (Council Bluffs)	AQ	1,000	-----

*On Payment Schedule

The following cases have been referred to the Attorney General:

NAME/LOCATION	PROGRAM	AMOUNT	DUE DATE
OK Lounge (Marion)	WS	448	11-01-87
Richard Davis (Albia)	SW	1,000	2-28-88
**Handi-Klasp, Inc. (Webster City)	WW/HC	1,000	8-02-88
Eagle Wrecking Co. (Pottawattamie Co.)	SW	300	5-07-89
*Twelve Mile House (Bernard)	WS	119	5-20-89
*Lawrence Payne (Ottumwa)	SW	425	6-19-89
William L. Bown (Marshalltown)	SW	1,000	10-01-89
Darlo Schaap (Sioux Center)	SW	600	1-14-90
Wellendorf Trust (Algona)	AQ/SW	460	2-12-90
Donald P. Ervin (Ft. Dodge)	SW	669	3-05-90
East Side Acres (Moville)	WS	200	12-26-89
East Side Acres (Moville)	WS	600	4-01-90
Craig Natvig (Cerro Gordo Co.)	SW	750	6-18-90
Amoco Oil Company (Des Moines)	UT	1,000	8-15-90
Gerald G. Pregler (Dubuque Co.)	SW	1,000	9-02-90
Donald R. Null (Clinton Co.)	AQ/SW	1,000	9-06-90
Pony Creek Homeowners Assoc. #1 (Pacific Jct.)	WS	315	2-24-91
M & D's Chalet (Elgin)	WS	490	3-02-91
Robert and Sally Shelley (Guthrie Center)	SW	1,000	3-04-91
Fred Varner (Worth County)	SW	1,000	4-11-91
Gaul's Water Commission (Burlington)	WS	200	5-13-91
Buffalo Bill Estates, Inc. MHP (Camanche)	WS	245	5-14-91

** Independent Attorney General Action

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The following administrative penalties have been appealed:

NAME/LOCATION	PROGRAM	AMOUNT
AMOCO Oil Co. (Des Moines)	UT	1,000
Iowa City Regency MHP	WW	1,000
Great Rivers Coop (Atavia)	HC	1,000
1st Iowa State Bank (Albia)	SW	1,000
Cloyd Poland (Decatur)	FP	800
King's Terrace Mobile Home Court (Ames)	WW	1,000
Premium Standard Farms, Inc. (Boone Co.)	WW/AQ	700
Amoco Oil Co. (West Des Moines)	UT	1,000
Stone City Iron & Metal Co. (Anamosa)	AQ	1,000
Manson Water Supply	WS	500
Joe Villinger (West Point)	SW	500
Midwest Mining, Inc. (Harrison Co.)	FP	800
Sioux City, City of	WW	1,000
Donald Ray Maasdam (Pocahontas Co.)	SW	1,000
Vern Starling (Boone Co.)	SW	1,000
Des Moines, City of	HC	1,000
Carl A. Burkhart d/b/a American Wrecking Co.	AQ/SW	1,000
Van Dusen Airport Services (Des Moines)	HC	1,000
Maple Crest Motel and MHP (Mason City)	WS	350
Plymouth County Solid Waste Agency	SW	1,000
Lloyd Dunton (Iowa County)	SW	1,000
Chicago & North Western Transportation, et.al.	SW	1,000
Vincent Martinez d/b/a Martinez Sewer (Davenport)	HC	1,000
Richard Duncan (Louisa County)	SW/AQ	500
Joe Eggers, Jr., et. al. (St. Ansgar)	SW	1,000
McDowell Dam #1 (Lee County)	FP	500
McDowell Dam #2 (Lee County)	FP	500
Camp Riverside (Guthrie County)	FP	500
Joe W. Ringsdorf (Kossuth County)	AQ	1,000
John W. Yotter (Louisa County)	SW	1,000
Molkenthin Swine Operation (Keokuk County)	WW	800
Oskaloosa Food Products Corp. (Oskaloosa)	WW	1,000
Oskaloosa, City of	WW	1,000
Clarke County Sanitary Landfill (Osceola)	SW	1,000
Kenneth Bode (Mills Co.)	SW	1,000

The following administrative penalties were paid last month:

NAME/LOCATION	PROGRAM	AMOUNT
Stu's Chick Haven (Boyden)	WW	300
Lyn-Den Heights Homeowners Assoc. (Iowa City)	WS	100
*Folletts Tavern (Camanche)	WS	300
Kor-Bert, Inc. (Klemme)	AQ	1,000
Nashua Town and Country Club (Nashua)	WS	100
Country Estates MHP (Council Bluffs)	WS	165
Hageman's Lounge (Burr Oak)	WS	100
Colony Haus Restaurant (Williamsburg)	WS	100
Pineo Grove Water Company (Princeton)	WS	390
Unilabco Inc. d/b/a A.I. Processors (Whittemore)	AQ	1,000
Woolstock Water Supply	WS	100
Victor Municipal Water Dept.	WS	100
Asgrow Seed Company (Butler Co.)	AQ	500
Charles City Country Club (Charles City)	WS	200
Camp Hitaga (Marion)	WS	50
Carmen M. Paulsen (Johnson County)	AQ/SW	1,000

TOTAL \$5,505

The \$500 penalty assessed to Cozy Cafe (Lucas) was rescinded.

The \$1,000 penalty assessed to Chicago & North Western (Pottawattamie Co.) was rescinded.

*On Payment Schedule

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DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION COMMISSION
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Name, Location and Region Number	New or Updated	Program	Alleged Violation	DNR Action	Status	Date
Aidex Corporation Council Bluffs (4)		Hazardous Waste	Release of Hazardous Substances	Referred to Attorney General	Referred EPA suit filed State intervention Motion to dismiss granted/denied Filed interlocutory appeal Decision in favor of govt. Case Management Hearing Trial Date	12/16/82 2/26/87 3/05/87 2/26/88 3/11/88 4/04/89 11/20/90 4/ /92
American Pelletizing Corp. Knoxville (5)		Air Quality	Emission Standards	Order	Referred	2/18/91
Amoco Oil Company Des Moines/Ames (5)		Underground Tank	Remedial Action	Referred to Attorney General	Referred	10/15/90
Amoco Oil Company Des Moines/Ft. Madison (5&6)		Underground Tank	Remedial Action	Referred to Attorney General	Referred	8/21/90
Anderson, Nicklos J. d/b/a Far-Mor Feeder Pigs Henry County (6)		Wastewater	Prohibited Discharge	Order	Referred	2/18/91
Archer Daniels Midland Co. Clinton County (6)		Wastewater	Prohibited Discharge	Referred to Attorney General	Referred	3/18/91
Archer Daniels Midland Co. Clinton County (6)		Air Quality	Emission Standards	Referred to Attorney General	Referred	5/20/91
ASPRO, Inc. Waterloo (1)		Air Quality	Emission Standards	Referred to Attorney General	Referred	3/18/91
Baker, Mike d/b/a M & D's Chalet Elgin (1)		Solid Waste	Illegal Disposal	Order/Penalty	Referred	4/15/91
Black Hawk Foundry & Machine Co. Davenport (6)		Air Quality	Emission Standards	Referred to Attorney General	Referred	4/15/91
William L. Bown Marshalltown (5)		Solid Waste	Open Dumping	Order/Penalty	Referred Petition Filed Default Judgment	11/20/89 3/03/90 7/27/90
Bridgestone/Firestone, Inc. Des Moines (5)		Wastewater Hazardous Condition	Prohibited Discharge Failure to Notify	Referred to Attorney General	Referred	5/21/90
Bruening Rock Products, Inc. Elma (1)		Wastewater	Prohibited Discharge	Referred to Attorney General	Referred	2/18/91
Buffalo Bill Estates, Inc. Camanche (6)	New	Drinking Water	Monitoring/Reporting- Nitrate	Order/Penalty	Referred	6/17/91
Cain, Edward and Margaret Clinton County (6)		Flood Plain	Channel Change	Referred to Attorney General	Referred	3/18/91
Carney, Don and Gertrude Ft. Dodge (2)		Solid Waste	Illegal Disposal	Order/Penalty	Referred	4/15/91
Carnicle, Roger d/b/a The New Shack Tavern Cedar Rapids (1)	Updated	Drinking Water	MCL - Bacteria	Referred to Attorney General	Referred Petition Filed Trial Date	9/18/90 12/31/90 12/18/91
Chalfant, Milo, et.al. Webster City (2)		Solid Waste	Illegal Disposal	Order/Penalty	Referred Suit Filed	9/20/89 8/08/90
Chicago & Northwestern Transportation Co. Webster County (2)		Air Quality	Open Burning	Referred to Attorney General	Referred	3/18/91
Clinton Pallet Co. Clinton (6)		Solid Waste	Illegal Disposal	Referred to Attorney General	Referred Suit Filed Default Judgment	6/21/89 11/09/89 4/ /90
Cooper, Kenneth/Hunter Oil Minburn (5)		Storage Tank	Spill Cleanup	Order	Cooper Referred Hunter Referred Site Assessment DNR Review Remediation Plan	8/17/88 2/01/90 4/20/90 8/22/90

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DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL PROTECTION COMMISSION ATTORNEY GENERAL REFERRALS July 1, 1991

Name, Location and Region Number	New or Updated	Program	Alleged Violation	DNR Action	Status	Date
Cota Industries, Inc. Des Moines (5)	Updated	Hazardous Condition	Remedial Action	Order	Referred	4/15/91
				Order	Petition for Judicial Review Motion to Dismiss	4/18/91 5/08/91
Country Estates MH Court Council Bluffs (4)	New	Drinking Water	Monitoring/Reporting- Bacteria	Order/Penalty	Referred	6/17/91
Country Lane Foods, Division of Yoder, Inc., Kalona (6)		Wastewater	Prohibited Discharge	Referred to Attorney General	Referred	11/20/90
Davis, Richard & Sonja (5)		Solid Waste	Open Unpermitted Dumping	Referred to Attorney General	Referred Suit Filed Default Judgement Filed Motion to Deny Default Motion Overruled	6/22/88 8/11/88 4/21/89 6/14/89 10/04/89
Jimmy Dean Meat Co., Inc. (5)		Wastewater	Pretreatment	Referred to Attorney General	Referred Petition Filed	4/16/90 5/13/91
Denham, Larry Ottumwa (6)	Updated	Solid Waste	Illegal Disposal	Referred to Attorney General	Referred Petition Filed Default Judgement	8/21/90 11/30/90 6/10/91
Des Moines, City of (5)		Wastewater	Operation Violations	Referred to Attorney General	Referred	9/18/90
Dexter Co., The Fairfield (6)		Wastewater	Prohibited Discharge Effluent Limit Discharge	Referred to Attorney General	Referred Petition Filed	3/20/90 7/31/90
Drewelow, Harvey d/b/a Hanson Tires New Hampton (1)		Air Quality Solid Waste	Open Burning Illegal Disposal	Referred to Attorney General	Referred Petition Filed	6/19/90 3/13/91
Drips, Joseph and Diana vs. DNR	Updated	Wastewater	Private Sewage Disposal	Defending	Suit Filed Motion to Dismiss	8/06/90 6/14/91
Eagle Wrecking Co. Pottawattamie Co. (4)		Solid Waste	Open Dumping	Order/Penalty	Referred Bankruptcy Claim Filed	6/21/89 7/24/89
Ervin, Don Webster County (2)		Solid Waste	Operation Without Permit	Order/Penalty	Referred Motion for Summary Judgment Hearing Held Judgment for \$1,000 Execution & Order to Levy Application to Condemn Funds Partial Payment Received (\$331)	4/16/90 6/02/90 7/02/90 7/13/90 9/28/90 11/27/90 11/30/90
Exide Corporation Burlington (6)	Updated	Air Quality	Emission Standards	Referred to Attorney General	Referred Consent Decree (\$3,000)	4/15/91 6/06/91
Fairfield, City of (6)		Wastewater	Monitoring/Reporting Discharge Limitations Operation Violation	Order	Referred Petition Filed	2/20/90 7/31/90
Fred Carlson Co., Inc. Decorah (2)		Air Quality	Emission Standards	Referred to Attorney General	Referred	2/18/91
Gaul's Water Commission Burlington (6)	New	Drinking Water	Monitoring/Reporting- Inorganics	Order/Penalty	Referred	6/17/91
Gianetta, Dominic d/b/a Fred's 66, Davenport (6)		Underground Tank	Remedial Action	Order/Penalty	Referred Petition Filed	12/11/89 7/02/90
Great Dane Ferlizer, Inc. Audubon (4)		Wastewater	Prohibited Discharge	Referred to Attorney General	Referred	9/18/90
Hancock County and William Waddingham (2)		Underground Tank	Remedial Action	Referred to Attorney General	Referred	11/20/90
Hubinger Company Keokuk (6)		Air Quality	Operation Permit Violations	Referred to Attorney General	Referred	4/15/91

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Name, Location and Region Number	New or Updated	Program	Alleged Violation	DNR Action	Status	Date
Humboldt Co. Landfill Commission (2)		Solid Waste	Cover Violations	Order/Penalty	Referred Petition Filed Discovery Proceeding	11/20/89 8/30/90 11/15/90
Iowa Dress Club, Inc. Oskaloosa (5)	Updated	Wastewater Solid Waste	Prohibited Discharge Illegal Disposal	Referred to Attorney General	Referred Trial Date	7/16/90 7/16/91
Kleindolph, Richard Muscatine (6)		Solid Waste	Open Dumping	Order/Penalty	Referred Petition Filed Default Judgment Partial Penalty Paid (\$300)	10/24/89 4/06/90 8/13/90 9/13/90
Kollbaum, Garry East Side Acres Merville (3)		Drinking Water	MCL-Nitrate	Order/Penalty	Referred Petition Filed	5/21/90 7/02/90
Lakeshore Drive, Inc. et.al. Osceola (5)		Flood Plain	Reconstruction	Order	Referred Petition Filed Judgment vs. Lakeshore	11/20/89 2/07/90 4/09/90
Larson, Daryl, D.V.M. Audubon (4)		Wastewater	Prohibited Discharge	Referred to Attorney General	Referred Trial Information	11/20/89 3/19/91
Lenox, City of and Papetti's of Iowa, Inc.		Wastewater	Effluent Standards Treatment Agreement	Order	Referred	2/18/91
Mathern, Larry (Larry's DX) Ralph Beck; Walker Oil Co. (5)		Underground Tank	Remedial Action	Referred to Attorney General	Referred Petition Filed Beck Motion for Summary Judgment Denied	2/20/90 7/02/90 5/15/91
McGinnis, Mike; Alfred Patten; and Dennis Lewis Pottawattamie Co. (4)		Solid Waste	Open Dumping	Referred to Attorney General	Referred Suit Filed	10/24/89 11/15/89
McGregor, John W. and Doris V. DNR (4)	New	Wastewater	DNR Defendant	401 Certification	Referred	5/30/90
Bob McKiniss Excavating & Grading v. IDNR		Hazardous	DNR Defendant	Defense	Suit Filed DNR Motion to Dismiss	3/12/91 5/01/91
Miller Products Co. (5)		Wastewater	Pretreatment	Order/Penalty	Referred Petition Filed	4/16/90 11/29/90
Monfort, Inc. (5)		Wastewater	Prohibited Discharge	Attorney General	Referred	12/11/89
Natvig, Craig Mason City (2)		Solid Waste	Operation Without Permit	Order/Penalty	Referred Petition Filed	8/21/90 11/29/90
Oehler, Jay d/b/a Oehler Bros. Oil Moravia (5)		Underground Tank	Remedial Action	Referred to Attorney General	Referred	5/20/91
Orchard, City of (2)	New	Drinking Water	Monitoring/Reporting MCL-Bacteria Operation Violations	Referred to Attorney General	Referred	6/17/91
Osceola, City of (5)		Wastewater	Prohibited Discharge	Referred to Attorney General	Referred Petition Filed Amended Petition Filed	4/16/90 11/30/90 5/13/91
Pete's Sunoco/ Popejoy Septic West Des Moines (5)		Wastewater	Prohibited Discharge	Referred to Attorney General	Referred	6/19/90
Pony Creek Homeowners Assoc. #1 Pacific Junction (4)		Drinking Water	Monitoring/Reporting- Bacteria	Order/Penalty	Referred	3/18/91
Poulsen, Carmen M. Johnson County (6)	New	Air Quality Solid Waste	Open Burning Illegal Disposal	Order/Penalty	Referred Penalty Paid	6/17/91 6/26/91
Pregler, Gerald Dubuque County (1)		Solid Waste	Illegal Disposal	Order/Penalty	Referred Petition Filed	10/15/90 5/23/91
Pruess v. IDNR		Hazardous Condition	DNR Defendant	Abatement Order	Suit Filed Hearing DNR Motion to Dismiss Hearing Amended Petition DNR Motion to Dismiss Hearing Set Dismissed Appealed to Supreme Court	4/24/90 4/30/90 5/14/90 5/15/90 5/25/90 6/18/90 8/10/90 8/21/90 9/19/90

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Name, Location and Region Number	New or Updated	Program	Alleged Violation	DNR Action	Status	Date
R. V. Hopkins, Inc. Davenport (6)	New	Air Quality	Emission Standards	Referred to Attorney General	Referred	6/17/91
Root, William/LAWNKEEPERS Mitchell County (2)		Wastewater	Prohibited Discharge	Referred to Attorney General	Referred	7/16/90
Schaap, Darlo Sioux Center (3)		Solid Waste	Illegal Disposal	Order/Penalty	Referred Petition Filed	2/20/90 6/21/90
Schultz, Albert and Iowa Iron Works Ely (1)		Solid Waste	Open Dumping	Referred to Attorney General	Referred Suit Filed	9/20/89 8/08/90
Shelley, Robert and Sally Guthrie Center (4)		Solid Waste	Illegal Disposal	Order/Penalty	Referred	4/15/91
Sevig, Gordon, et.al. Walford (1)		Wastewater	Prohibited Discharge	Referred to Attorney General	Referred Criminal Charges Filed	9/20/89 7/15/90
Simmons, Art d/b/a Art's Garage Bussey (5)		Underground Tank	Remedial Action	Referred to Attorney General	Referred	5/20/91
Siouxland Quality Meat Co., Inc. Sioux City (3)		Wastewater	Discharge Limitations	Referred to Attorney General	Referred Petition Filed	2/20/90 7/02/90
Sun Wise Systems Corp. Sac City (3)		Wastewater	Pretreatment	Referred to Attorney General	Referred	10/15/90
Swea City Oil Co./Irene Fagerlund, Swea City (2)		Underground Tank	Remedial Action	Referred to Attorney General	Referred	8/21/90
Touchdown Co., et. al., Webster City (2)		Underground Tank	Prohibited Discharge Failure to Report Hazardous Condition	Referred to Attorney General	Referred Petition Filed	6/21/89 2/14/91
Vanner, Fred Worth County (2)		Solid Waste	Waste Oil Reporting	Order/Penalty	Referred	5/20/91
Witt, John J. Long Grove (6)		Solid Waste	Illegal Disposal	Referred to Attorney General	Referred Petition Filed Default Judgment (\$6,000)	8/21/90 10/16/90 12/11/90

DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION COMMISSION
CONTESTED CASES
JULY 1, 1991

DATE RECEIVED	NAME OF CASE	ACTION APPEALED	PROGRAM	ASSIGNED TO	STATUS
1-23-86	Oelwein Soil Service	Administrative Order	WW	Landa	Hearing continued.
12-03-86	Waukeg, City of	Administrative Order	WS	Hansen	Construction completed. Settlement proposed.
5-12-87	Iowa City Regency MHP	Administrative Order	WW	Hansen	Hearing held 11-03-87; amended order issued.
8-10-87	Great Rivers Co-op	Administrative Order	HC	Landa	Additional round of sampling performed.

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DATE RECEIVED	NAME OF CASE	ACTION APPEALED	PROGRAM	ASSIGNED TO	STATUS
1-15-88	First Iowa State Bank	Administrative Order	SW	Kennedy	To District Court 4/12/91 for judicial review.
2-04-88	Beaverdale Heights, Woodsman; Westwood Hills	Administrative Order	WS	Landa	Settlement proposed. Counter offer made.
2-05-88	Warren County Brenton Bank	Administrative Order	UT	Landa	Additional work requested and initiated.
3-01-88	Cloyd Foland	Administrative Order	FP	Clark	Supreme Court confirms;remands other issues.
7-25-88	Nishna Sanitary Services, Inc.	Permit Conditions	SW	Landa	Settlement proposed.
8-03-88	Hardin County	Permit Conditions	SW	Landa	Settlement proposed.
10-20-88	Worth Co. Co-Op Oil Northwood Cooperative Elevator Sunray Refining and Marketing Co.	Administrative Order	HC	Landa	Compliance initiated. Assessment report submitted.
1-25-89	Amoco Oil Co. - Des Moines	Administrative Order	UT	Landa	Settlement proposed. Clean-up progressing.
2-10-89	Northwestern States Portland Cement Company	Site Registry	HW	Landa	Settlement proposed.
2-10-89	Baier/Mansheim/Moyer	Site Registry	HW	Landa	Hearing continued. Settlement proposed.
2-16-89	John Deere Co. - Dubuque	Site Registry	HW	Landa	Dismissed.
2-16-89	Premium Standard Farms	Administrative Order	WM/AQ	Murphy	Hearing continued.
5-01-89	Amoco Oil Co. - West Des Moines	Administrative Order	UT	Landa	Compliance initiated.
6-08-89	Shaver Road Investments	Site Registry	HW	Landa	Hearing continued. Discovery initiated.
6-08-89	Hawkeye Rubber Mfg. Co.	Site Registry	HW	Landa	Hearing continued. Discovery initiated.
6-08-89	Lehigh Portland Cement Co.	Site Registry	HW	Landa	Hearing continued. Discovery initiated.
6-12-89	Amana	Site Registry	HC	Landa	Negotiating before filing.
6-22-89	Chicago & Northwestern Transportation Co. Hawkeye Land Co. Blue Chip Enterprises	Administrative Order	HC	Landa	Proposed decision 12/13/90; appealed. Oral argument 7/15/91.

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 CONTESTED CASES
 JULY 1, 1991

DATE RECEIVED	NAME OF CASE	ACTION APPEALED	PROGRAM	ASSIGNED TO	STATUS
7-26-89	Cozy Cafe	Administrative Order	WS	Hansen	Amended order issued. Settled.
9-01-89	Stone City Iron & Metal	Administrative Order Permit Denial	AQ	Kennedy	Testing to be done in June.
10-24-89	Farmers Cooperative Elevator Association of Sheldon	Site Registry	HC	Landa	Negotiation proceeding.
10-24-89	Consumers Cooperative Assoc.	Site Registry	HC	Landa	Negotiation proceeding.
11-03-89	Bridgestone/Firestone, Inc.	Site Registry	HC	Landa	Hearing continued pending negotiations.
11-17-89	Aten Services, Inc.	Administrative Order	SW/UT	Landa	Compliance completed.
12-11-89	Leo Schachtner	Permit Issuance	FP	Clark	Hearing continued.
1-02-90	Midwest Mining, Inc.	Administrative Order	FP	Clark	Settlement proposed.
1-04-90	Joe Villinger	Administrative Order	SW	Kennedy	Negotiating before filing.
1-08-90	Northwestern States Portland Cement Co.	Permit Amendment	WW	Landa	Negotiating before filing.
3-22-90	Vern Starling	Administrative Order	SW	Kennedy	Appealed to EPC; oral argument 7/15/91.
4-23-90	Sioux City, City of	Administrative Order	WW	Hansen	Informal meeting held on 5/18/90.
5-08-90	Texaco Inc./Chemplex Company Site	Site Registry	HW	Landa	Hearing continued.
5-09-90	Raccoon Valley State Bank	Administrative Order	HC	Landa	Hearing continued. Depositions taken.
5-09-90	Square D Company	Site Registry	HW	Landa	Hearing continued. Compliance initiated.
5-11-90	Carl A. Burkhart	Administrative Order	AQ/SW	Kennedy	Appealed to EPC 5/24/91; oral argument 7/15/91.
5-14-90	Van Dusen Airport Services	Administrative Order	HC	Landa	Compliance initiated.
5-15-90	Des Moines, City of	Administrative Order	HC	Landa	Hearing continued. Settlement proposed.
6-14-90	Willow Tree Investments, Inc.	Administrative Order	UT	Landa	Negotiating before filing.
6-18-90	Ames, City of	NPDES Permit Cond.	WW	Hansen	Briefs submitted. Oral arguments 7-15-91.
6-20-90	Des Moines, City of	NPDES Permit Cond.	WW	Hansen	Informal meeting held 6-21-91.
6-26-90	Maple Crest Motel and Mobile Home Park	Administrative Order	WS	Hansen	Negotiating settlement.

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 JULY 1, 1991

DATE RECEIVED	NAME OF CASE	ACTION APPEALED	PROGRAM	ASSIGNED TO	STATUS
7-02-90	Keokuk Savings Bank and Trust Keokuk Coal Gas Site	Site Registry	HW	Landa	Hearing continued to 6/11/91.
7-11-90	Chicago & Northwestern Co.; Steve L. Carroll; Susan E. Carroll; and Tracy A. Carroll	Administrative Order	NR	Kennedy	New orders issued 12/28/90 rescinding prior orders.
11-20-90		Administrative Order	SW	Kennedy	Hearing continued.
7-23-90	IBP, inc. Perry	Administrative Order NPDES Permit	WW	Hansen	Informal meetings 1/25/91.
7-26-90	Plymouth County SW Agency	Administrative Order	SW	Kennedy	Negotiating before filing.
7-30-90	Key City Coal Gas Site; Murphy Trust & Howard Pixler	Site Registry	HW	Landa	Hearing held. Briefs filed.
8-01-90	J.I. Case Company	Site Registry	HW	Landa	Hearing continued.
8-06-90	Lake Manawa Nissan, Inc.	Administrative Order	UT	Landa	Compliance initiated.
9-06-90	Wilbur Numelin d/b/a Lakeview Enterprises; Carl Hankenson	Administrative Order	UT	Landa	Hearing held; briefs due.
9-10-90	IBP, inc. Columbus Junction	Administrative Order NPDES Permit	WW	Hansen	Depositions 4/12/91. Hearing set for 8/6/91.
9-12-90	Michael & Joyce Haws; George H. Gronau	Administrative Order	UT	Landa	Stipulations prepared.
9-20-90	Duane Schwarting	Variance Denial	SW	Kennedy	Hearing continued.
10-02-90	James Rhoads	Administrative Order	HC	Landa	Negotiating before filing.
10-15-90	Westside General Store Corp.	Administrative Order	UT	Landa	Negotiating before filing.
10-18-90	Harlan Pruess	Claim	HC	Landa	Hearing scheduled for 8/5/91.
10-23-90	Chariton Municipal Water Department	Water Use Permit	WS	Clark	Settlement close.
10-29-90	Arcadian Corporation	NPDES Permit Conditions	WW	Hansen	Negotiating before filing.
11-06-90	Vincent Martinez d/b/a Martinez Sewer Service	Administrative Order	HC	Landa	Sent to DIA.
11-13-90	Lloyd Dunton	Administrative Order	SW	Kennedy	Hearing continued to 8/2/91.
11-15-90	Springwood Enterprises, Inc.	Water Use Permit	WR	Clark	Hearing continued.
11-29-90	Natural Gas Pipeline of America	NPDES Permit Denial	WW	Hansen	Hearing set for 9/20/91.

Environmental Protection Commission Minutes

July 1991

DEPARTMENT OF NATURAL RESOURCES
 ENVIRONMENTAL PROTECTION COMMISSION
 CONTESTED CASES
 JULY 1, 1991

DATE RECEIVED	NAME OF CASE	ACTION APPEALED	PROGRAM	ASSIGNED TO	STATUS
12-04-90	United States Gypsum Company	Administrative Order	SW	Kennedy	Negotiating before filing.
12-10-90	ISU - Ames Laboratory Chemical Disposal Site	Site Registry	HC	Landa	Settled.
12-19-90	Aratex Services, Inc.	Site Registry	HC	Landa	Negotiating.
12-21-90	Des Moines, City of	Administrative Order	UT	Landa	Compliance initiated.
12-27-90	McAtee Tire Service, Inc.	Administrative Order	SW	Kennedy	Hearing continued.
1-07-91	Joe E. Eggers, Jr.; Joe and Mary Eggers	Administrative Order	SW	Kennedy	Negotiating before filing.
1-09-91	Iowa Southern Utilities	Administrative Order	HC	Landa	Hearing set for 8/30/91.
1-11-91	Fansteel/Wellman Dynamics	Site Registry	HC	Landa	Hearing set for 7/17/91.
1-22-91	Richard Duncan	Administrative Order	SW/AQ	Kennedy	Negotiating before filing.
1-28-91	McDowell Dam #1 & #2	Administrative Order	FP	Clark	Negotiating before filing.
2-22-91	Leon & Rebecca Pierce Camp Riverside	Administrative Order	FP	Clark	Hearing continued.
3-08-91	ADM - Cedar Rapids	Conditional Permit	AQ	Landa	Hearings begun.
3-11-91	John W. Yotter	Administrative Order	SW	Kennedy	Sent to DIA.
3-14-91	Joe Ringsdorf	Administrative Order	AQ	Kennedy	Hearing set for 7/2/91.
3-15-91	Muscatine, City of	Administrative Order	WW	Hansen	Motion to dismiss filed by City.
3-21-91	Molkenthin Swine Operation	Administrative Order	WW	Murphy	Negotiating before filing.
3-22-91	Mitchell Bros. Boars and Gilts	Administrative Order	WW	Murphy	Negotiating before filing.
4-16-91	AMPEL	Const. Permit Denial	AQ	Landa	Negotiating before filing.
4-29-91	R.V. Hopkins, Inc.	Const. Permit Denial	AQ	Landa	Sent to DIA.
5-09-91	Lost Canyon Mobile Home Park	Administrative Order	WW	Hansen	Negotiating before filing.
5-09-91	Oskaloosa Food Products Corp.	Administrative Order	WW	Hansen	Negotiating before filing.
5-16-91	Oskaloosa, City of	Administrative Order	WW	Hansen	Negotiating before filing.
5-16-91	Clarke Co. Sanitary Landfill	Administrative Order	SW	Kennedy	Negotiating before filing.

July 1991

Environmental Protection Commission Minutes

DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION COMMISSION
CONTESTED CASES
JULY 1, 1991

DATE RECEIVED	NAME OF CASE	ACTION APPEALED	PROGRAM	ASSIGNED TO	STATUS
5-20-91	Dad's Fuel Stop	Administrative Order	UT	Wornson	Negotiating before filing.
5-20-91	Great Rivers Coop--Lockridge	Site Registry	HC	Landa	Sent to DIA.
5-20-91	Mason City Municipal Airport/ Dwyer Aircraft Sales, Inc.	Administrative Order	UT	Wornson	Negotiating before filing.
5-21-91	The Market of Clear Lake, Inc.	Administrative Order	UT	Wornson	Negotiating before filing.
5-31-91	Kenneth Bode	Administrative Order	SW	Kennedy	Negotiating before filing.
5-31-91	Cargill, Inc.	Certificate to Construct AQ	Landa		Process application through Utility Board.

Clark Yeager asked about the hearing dates for the Corps of Engineer Nationwide Permit rules.

Mr. Stokes replied that the dates and locations for the hearings will be provided to the Commission before they leave the meeting.

FINAL RULE--CHAPTERS 91 AND 92, CRITERIA FOR AWARD OF GRANTS - STATE REVOLVING FUND LOANS FOR WASTEWATER TREATMENT

Allan Stokes, Division Administrator, Environmental Protection Division, presented the following item.

The Commission is requested to approve final adoption of revisions to Chapters 91 and 92.

Chapter 91 is the priority rating system for establishing the list of fundable projects. The priority system has been used for establishing the construction grant priority list and is used for SRF funding as well. Chapter 92 deals with State Revolving Fund (SRF) administration.

Revisions in Chapter 91 include the updating of the priority rating criteria to reflect water quality standards revised in 1990, and minor wording changes to allow priority list development and administration to be applicable to the SRF program.

Chapter 92 revisions include the minimization of loan application documents, clarification of the significance of the application deadline, and revision of the wording indicating costs eligible for loan financing to clarify that they may begin when the

Intended Use Plan is approved rather than the date of approval of a loan.

Three public hearings were held on the proposed revisions to these chapters in Denison, Cedar Rapids and Des Moines on June 5, June 6, and June 7, 1991. The period for submission of written and oral comments continued through June 14, 1991.

There were no attendees at any of the three hearings. No written or oral comments were submitted on the proposed revisions to either of the chapters. There are no changes in these chapters from those proposed in the published Notice of Intended Action.

(Rules are shown on the following 9 pages)

ENVIRONMENTAL PROTECTION COMMISSION [567]
Adopted Rule

Pursuant to the authority of Iowa Code section 455B.105 and 455B.245, the Environmental Protection Commission adopts amendments to 567--Chapter 91, "Criteria for Award of Grants," Iowa Administrative Code.

Notice of Intended Action was published in Iowa Administrative Bulletin, May 15, 1991, as ARC 1976A.

Public hearings were held on June 5, 6 and 7, 1991 and no written or oral comments on the amendments were received.

This rule is identical to that published as Notice of Intended Action.

This rule will become effective on September 11, 1991.

These rules are intended to implement Iowa Code sections 455B.105 and 455B.245.

CHAPTER 91
CRITERIA FOR AWARD OF GRANTS

ITEM 1. Amend 567--91.2 as follows:

91.2(1) Program description. The Federal Water Pollution Control Act is directed toward improvement of the quality of surface waters. This Act establishes financial assistance ~~a--federal--grant~~ programs to provide assistance to municipalities for fulfilling their obligations to meet minimum federal treatment requirements and state water quality standards. The federal grant program is administered by the Iowa department of natural resources, under authority delegated by the Environmental Protection Agency (EPA). The department of natural resources is the designated regulatory agency for water quality control in Iowa. In coordination with other state agencies and interests, the department of natural resources establishes water quality standards for Iowa waters. The department of natural resources is responsible for the establishment of the Priority System and the State Project Priority List according to federal regulations. The department of natural resources is the primary contact for financial assistance applicants and recipients grant applicants and grantees regarding all matters in the wastewater treatment works assistance construction-grant programs. The environmental protection commission establishes state policy for administration of the programs.

91.2(2) State priority system. The Priority System establishes a method for ranking projects considered eligible for financial assistance construction grant-funds and sets forth the procedures used to develop and revise the State Project Priority List. It also describes administration and management of state responsibilities in the Construction Grant program. The Priority System has been developed in an effort to achieve optimum water quality improvement consistent with the goals and requirements of the Federal Water Pollution Control Act. ~~The development of a new or revised Priority System is made~~ according to the state rule-making process and will be subject to the public participation procedures described in 91.3. The Priority System is comprised of the rules in this chapter.

91.2(3) State project priority list. The grant allotments available to Iowa each year for constructing publicly owned facilities are limited and ~~not~~ all projects ~~may not~~ can be funded. The state, therefore, establishes a fundable list for the distribution of grant funds allotted to Iowa. The State Project Priority List also includes a planning list which consists of projects which may utilize future financial assistance grant funds. The annual State

Project Priority List, upon EPA approval, replaces previously approved project priority lists.

ITEM 2. Amend subrule 91.5(2) a, as follows:

91.5(2) Priority assignments.

a. Point source rating criteria application - All projects are evaluated and placed on the State Project Priority List according to the point source rating criteria in 91.10(455B) of the Priority System. Unfunded pProjects will be re-evaluated and subsequently placed on the priority list for two-year intervals starting with the FY 85 and FY 86 period.

ITEM 3. Amend subrule 91.5(3), as follows:

91.5(3) Point source rating criteria information.

a. Factors considered in the criteria - The formula used to rate projects is contained in 91.10(455B). In developing project rating criteria for the Priority System, the state considered the following factors:

(1) The severity of the pollution problem.

~~(2)--The-existing-population-affected--~~

(2)(3) The need for preservation of high quality waters.

(3)(4) Specific categories of needs are not a part of the point source rating criteria; however, they are a factor in the Priority System to determine if a project can be placed on the State Project Priority List.

ITEM 4. Amend subrule 91.5(4) as follows:

91.5(4) State project priority list. The Priority System is used to derive a listing of projects in priority order which qualify for financial~~federal~~ grant assistance, including both a Fundable and a Planning List.

a. Fundable List - Includes project steps scheduled for award of grant assistance from funds available for obligation during the fiscal year. The Fundable List is determined by the following factors:

(1) Project schedules - Schedules for project steps are based on their present status and anticipated progress. Readiness is not a factor in priority ranking; however, it may determine if a project can be placed on the Fundable List. Only projects considered capable of readiness within the fiscal year can be placed on the Fundable List. It is the applicant's ~~grantee's~~ responsibility to complete work necessary as a prerequisite to the step appearing on the State Project Priority List. Criteria for Fundable List consideration:

1. An applicant for grant funding must have a complete facility plan on file with the department by June 1, 1986, or thereafter in succeeding years by April 1 of the year prior to the fiscal year funding is requested (i.e., Example - Facility plan must be submitted by June 1, 1986, in order for the project to be considered for the FY-87 Priority List. Facility plans must be submitted by April 1, 1987, to be considered for the FY-88 Priority List).

2. In addition, applicants applying for Step 3 grant funding must be projected to have final plans and specifications on file for departmental review by April 1 during the fiscal year of requested funding.

Projects included on the Fundable List which cannot attain readiness within the fiscal year may be removed and placed on the Planning List in accordance with 91.9(455B), State project priority list revisions.

(2) Project priorities - Projects with qualifying schedules will be considered in priority order for placement on the Fundable List. Subsequent segments of a project which has been awarded financial assistance a Step-3 grant for Category I and Category II needs will be placed on the Fundable List ahead of other new Step-3-or-Step-4 projects whose schedules also would allow

funding during the fiscal year.

ITEM 5. Amend rule 91.6 as follows:

567--91.6(455B) Grant funding policy.

91.6(1) General funding policy. Each municipality with a qualifying need is assigned a priority and is funded as allowed by its relative priority and according to this section.

Starting October 1, 1984, federal grants for new projects will be 55 percent. Some segmented and phased projects which were described in a facilities plan approved before October 1, 1984, and included a Phase or Segment which received a grant prior to October 1, 1984, may continue to receive 75 percent funding. In cases where a primary, secondary, or advanced waste treatment facility or its related interceptors or a project for infiltration/inflow correction has received a grant for erection, building, acquisition, alteration, remodeling, improvement, extension or correction before October 1, 1984, all segments and phases of such facility, interceptors and project for infiltration/inflow correction will be eligible for grants at 75 percent.

91.6(2) Eligibility of project categories. The state has authority to determine the priority for each category of need defined by the Federal Water Pollution Control Act. These policies will be used to determine the circumstances under which each category will be endorsed by the state for federal grant funding. Projects will be placed on the State Project Priority List and, if necessary, removed from the State Project Priority List in accordance with these policies. Starting October, 1984, grants are to be made only on projects for secondary treatment or more stringent treatment, or any cost-effective alternatives such as new interceptors and appurtenances, and infiltration/inflow correction. Funding can be provided to other types of projects, such as related sewers, so long as no more than 20 percent of the state's allocation (percentage to be determined by the governor) is spent on those other types of projects. The technical review of projects prior to endorsement will determine the project categories and which portions will be grant funded. Inclusion or omission of a project category on the State Project Priority List will be adjusted as necessary.

c. Category IIIA - In the evaluation of alternatives available to meet a Category I or Category II need, cost-effective proposals may include infiltration/inflow correction (Category IIIA). Category IIIA will be fundable at the same priority as the Category I or Category II need where it is cost-effectively justified as part of the overall project. Category IIIA work, without the documentation of planning undertaken to address a Category I or Category II need, will not be considered for federal funding under this program.

ITEM 6. Amend rule 91.10 as follows:

567--91.10(455B) Point source rating criteria. This point source rating criteria considers the municipal discharger and the receiving stream in formulation of priorities as necessary for ~~obligations of construction grant funds according to the State Priority System of which this criteria is a part~~ distribution of financial assistance available through EPA or state programs.

The criteria provides a mathematical formula for weighing the various parameters involved and determines a numerical rating. The two basic factors in the priority rating formula used to develop Municipal Discharger Priority Ratings are (1) the Stream Segment Priority Criteria, and (2) the Municipal Discharger Priority Criteria. Specific components of these factors and their combination to form the Municipal Discharger Priority Ratings are set forth

below.

91.10(1) Stream segment priority criteria. Each major river basin is divided into various stream segments which consist of surface waters that have a common hydrologic characteristic. The stream segments are classified, in accordance with EPA guidelines as effluent limited (EL) or water quality limited (WQ).

Effluent limited (EL) segments are those segments where the water quality meets and will continue to meet the water quality standards, or where the water quality standards will be met after application of secondary treatment or best practicable treatment technology (BPT) to all point source discharges to the segment.

Water quality limited (WQ) segments are those segments where water quality standards are not being met and would not be met after application of secondary treatment of BPT to all point discharges to the segment.

Three factors are considered in allocating priority points for ranking stream segments:--They are:--(1)-The water use designations given the segment in the water quality standards;--(2)-the population residing within a certain area in the vicinity of the stream segment;--and--(3)-whether the segment is effluent limited or water quality limited:

Secondary treatment is defined in Chapter 62, IAC. If water quality standards require imposing limits on parameters in a discharge more stringent than or in addition to those identified in 62.3, the segment is considered to be water quality limited.

The formula for calculating total points for a segment is as follows:

a. Total stream Segment Points =

$$(0.5 + A + B_{cw} B_c + B_{ww} + B_{lr} B_w + C + HQ + \frac{HQR}{POP}) \times SQ$$

Where: A = 2.0 if the segment is designated class A water and 0 otherwise.

$B_{cw} B_c = 2.0$ if the segment it is designated class B cold water and 0 otherwise.

$B_{ww} B_c = 1.0$ if the segment it is designated class Ba significant resource warm water and 0 otherwise.

$B_{lr} = 0.5$ if it is a limited resource water and 0 otherwise.

C = 1.0 if the segment it contains any designated class C waters and 0 otherwise.

HQ = 1.0 if the segment it is designated a high quality water and 0 otherwise.

--2:0)--(30-or-more

--1:5)--(15-to-30

HQR = 0.5 if it is a high quality resource and 0 otherwise.

--POP--1:0)--if-(5-to-15-thousand-people

--0:5)--(0:5-to-5-presently

--0)--(0-to-0:5

--reside-within-five-miles-of-either-side-of-the-segment-and-at-least-one-of the -above-terms -(A; -B_c; -B_w; -G; -HQ) -is -not -zero: --POP -equals -zero -if -the segment -is -unclassified -or -the -discharge -occurs -to -an -unclassified -tributary beyond-five-stream-miles-from-the-segment:

SQ = 2.0 3 if the segment is designated as water quality limited: with treatment more stringent than standard secondary required.

SQ = 1.0 2 if the segment is designated as effluent limited with water quality standards violated secondary treatment required.

--SQ--1-if-the-segment-is-designated-as-effluent-limited-with-water-quality standards-met:

--SQ--0:5-if-the-segment-is-not-classified-as-A; -B_c; -B_w; -G-or-HQ-or-if-the discharge-occurs-to-an-unclassified-tributary-beyond-five-stream-miles-from the -segment -and -treatment -more -stringent -than -standard -secondary -is -not

required:

b. Application. -The -segment -point -calculation -for -cities -which -have wastewater -dischargers -within -five -miles -of -a -stream -segment -will -include factors -in -the -formula -applicable -to -that -segment-

--The -segment -point -calculation -for -cities -discharging -to -a -tributary -of -a segment -at -a -point -greater -than -five -stream miles -from -the -segment -will consider -all -applicable -factors -except -the -PBP -factor -if -the -city -is -required by -the -department -to -treat -its -wastewater -to -a -level -more -stringent -than standard -secondary -treatment. The stream segment priority for each discharger is based upon the stream segment(s) impacted by the discharge. The stream segment priority for a discharger impacting a water quality limited segment will be determined according to all applicable use designation factors for the water quality limited segment(s), whether or not the discharge is directly into the water quality limited segment and if the discharge effluent limits are more stringent than secondary treatment.

91.10(2) Municipal dDischarger priority criteria. This criteria ranks a discharger with respect to its present contributing wasteload and the degree of stream overloading it causes.

The formula used to rank dischargers is as follows:

a. Municipal dDischarger priority points = $A_1 B_1 + A_2 B_2 \frac{(A1)(B1)}{(A2)(B2)}$

Where: A A1 and A2 = Degree of stream overloading.

A1 A₁ = CBOD5 Overloading Factor =

Present lbs. CBOD5 discharged

Allowable lbs. CBOD5

"Present lbs. CBOD5 discharged" is the average lbs/day of CBOD5 which is currently being discharged -and- Allowable lbs. -BOD equals -32.4 -lbs/cfs -x -7Q₁₀ - streamflow -unless -higher -protected -low -flow -has -been -established. If BOD values are reported as BOD5, they shall be converted to CBOD5 values by multiplying by 25/30.

"Allowable lbs. CBOD5" equals the average lbs/day of CBOD5 allowed to be discharged calculated by wasteload allocations using the current water quality standards.

A2A₂ = Ammonia-N Overloading Factor =

Present lbs. NH3-N discharged

Allowable lbs. NH3-N

"Present lbs. NH3-N discharged" is the average lbs/day of NH3-N which is currently being discharged -and- Allowable lbs. -NH₃-N equals -25.8 -lbs/cfs -x -7Q₁₀ - streamflow -unless -higher -protected -low -flow -has -been -established. If ammonia data is not available for an existing facility, then the value shall be obtained by the following formula:

Present lbs. NH3-N discharged =

15 mg/l NH3-N x average daily flow in MGD x 8.34

"Allowable lbs. NH3-N" equals the average lbs./day of NH3-N allowed to be discharged as calculated by wasteload allocations using the current water quality standards.

-B -x- Total -contributing -lbs/day -of -BOD₅ -and -NH3-N- --Values -will -be -obtained from -two -full -calendar -years -of -operational -data -preceding -the -two -year re-evaluation -period - (i.e., -FY85; -FY86 -period -is -based -on -1982; -1983 -data)- B1 and B2 = Present lbs./day of CBOD5 (B1) and NH3-N (B2) being discharged. This element considers the actual wasteload which the stream receives. Lbs./day values will be obtained from two full calendar years of operational data preceding the year of being scored (i.e., FY92 scoring year will be based on 1989 and 1990 data).

Value of B1

Average lbs/day of CBOD5 Discharged

0	1.5 or less
1	1.5 - 3
3	3 - 5
5	5 - 10
7	10 - 20
9	20 - 50
12	50 - 100
14	100 - 250
16	250 - 750
18	750 - 1500
21	1500 - 2500
25	2500 or more

Value of B2	Average lbs/day of NH3-N Discharged
0	.75 or less
1	.75 - 1.5
3	1.5 - 2.5
5	2.5 - 5
7	5 - 10
9	10 - 25
12	25 - 50
14	50 - 125
16	125 - 375
18	375 - 750
21	750 - 1250
23	1250 - 2500
25	2500 or more

-----0)---(-1.5-or-less
 -----1)---(-1.5-----3
 -----3)---(-3-----5
 -----5)---(-5-----10
 -----7)---(-10-----20
 -----9)---(-20-----50
 --B1--12)---(-50-----100
 -----14)---(-100-----250
 -----16)---(-250-----750
 -----18)---(-750-----1500
 -----21)---(-1500-----2500
 -----25)---(-2500-or-more
 -----0)---(-.75-or-less
 -----1)---(-.75-----1.5
 -----3)---(-1.5-----2.5
 -----5)---(-2.5-----5
 -----7)---(-5-----10
 -----9)---(-10-----25
 --B2--12)---(-25-----50
 -----14)---(-50-----125
 -----16)---(-125-----375
 -----18)---(-375-----750
 -----21)---(-750-----1250
 -----25)---(-2500-or-more

-This element considers the actual wasteload which the stream receives; instead of representing the actual total population contributing to the discharge:

b. Municipal dDischarger priority points for municipalities communities which have multiple discharge points or discharge into more than one receiving

stream will be scored as follows:

(1) For multiple discharges from a municipality into a single stream segment, municipal discharger priority points from all outfalls-each-outfall's effluent-data will be added together to obtain a single municipal discharger priority point-discharge-subtotal score which is then multiplied by the stream segment subtotal score.

(2) For multiple discharges from a municipality entering different stream segments, the municipal discharger priority points multiplied by the corresponding stream segment points for each outfall-each-outfall's-effluent data-and-corresponding-stream-data will be treated as a separate total score which will be added to the total scores of all other outfalls total-scores to comprise the community's final score of the municipality.

c. Municipal discharger priority points for municipalities communities that do not have sanitary sewer systems were will be calculated on the basis of the following assumptions:

--(1)--Water-use-is-50-gallons-per-capita-per-day:

(1)(2) Privately owned septic tanks provide the same degree of treatment (35 percent BOD reduction) as primary treatment.

(2)(3) Septic tank absorption dispersion fields have a discharge to surface waters equal to 25 percent of the computed organic load: from the septic tank.

Computation:

The existing stream loading is computed using the following formulas:

lbs. of CBOD₅ BOD₅ = existing population x 0.163 lbs. CBOD₅ BOD₅ per capita x 0.65 x 0.25

lbs. of NH₃-N = existing population x 0.05 lbs. NH₃-N per capita x 0.65 x 0.25

91.10(3) Municipal discharger priority rating. The total points for each municipal discharger are obtained by multiplying the "Total Stream Segment Points" times "Municipal Discharger Priority Points."

Total points are determined for each municipal discharger and the priorities of dischargers are then ranked in decreasing order of points.

These rules are intended to implement Iowa Code sections 455B.242 to 455B.246.

Dated this ____ day of July, 1991.

Larry J. Wilson, Director

(A:EP91.MIN/182-91/bkp)

ENVIRONMENTAL PROTECTION COMMISSION [567]
Adopted Rule

Pursuant to the authority of Iowa Code section 455B.105 and 455B.299, the Environmental Protection Commission adopts amendments to 567--Chapter 92, "State Revolving Fund Loans for Wastewater Treatment," Iowa Administrative Code.

Notice of Intended Action was published in Iowa Administrative Bulletin, May 15, 1991, as ARC 1975A.

Public hearings were held on June 5, 6 and 7, 1991, and no written or oral comments on the amendment were received.

This rule is identical to that published as Notice of Intended Action.

These rules will become effective on September 11, 1991.

These rules are intended to implement Iowa Code sections 455B.105 and 455B.299.

CHAPTER 92
STATE REVOLVING FUND LOANS FOR WASTEWATER TREATMENT

ITEM 1. Amend rule 92.3 Definitions, as follows:

"Eligible cost" means the cost of all labor, material, machinery, equipment, loan initiation and service fees, design and construction engineering services ~~incurred-after-the-date-of-approval-of-a-loan~~, legal fees and expenses related to the project, capitalized interest during construction of the project and all other expansion, construction and rehabilitation of all or part of a project incurred after the date of approval of an intended use plan which contains the project on a list approved for SRF assistance.

ITEM 2. Amend subrule 92.5(2) as follows:

92.5(2) General requirements. The following items in addition to the requirements of subrule 92.5(1) must be included in a complete SRF loan application:

a. Two copies of the planning--report facility plan certified by a professional engineer registered to practice in Iowa;

~~b. Two copies of project plans and specifications certified by a professional engineer registered to practice in Iowa;~~

~~c. A schedule for submission of an operation and maintenance manual and plans of operation plans and specifications for the project;~~

d. A user charge system;

e. A project construction schedule and cash flow projection including the acquisition of necessary land;

f. A summary of all financial arrangements necessary to fund the project; and

g. A description of a dedicated revenue source for loan repayments.

92.5(3) Timing. ~~In preparing the IUP for fiscal year 1989 loan funds, the director may consider potential applicants considered capable of submitting applications within the time necessary to effectively utilize SRF funds provided by the initial capitalization grant. To be considered for loan assistance during subsequent fiscal years, applications must be received by the department on or before July 1 preceding the fiscal year will be given first priority for loan assistance in the development of the IUP for that fiscal year. Applications received after that date will be considered for addition to the list of eligible recipients in the IUP in priority order following applicants which had applied by July 1.~~

ITEM 3. Amend subrule 92.8(2), as follows:

92.8(2) Allowable and unallowable costs. Allowable costs shall be limited to those eligible costs deemed necessary, reasonable, and directly related to the efficient completion of the project. Generally, the director will determine project costs eligible for loan assistance in accordance with state rule 567--91.6(455B). Land purchase, easement or rights-of-way costs are not eligible. In addition to those identified in 567--Chapter 91, unallowable costs include the following:

- a. Cost of the nonfederal share of any project funded by an EPA grant under the provision of the Clean Water Act.
- b. Costs of planning and ~~design-phases-of-the-project-incurred-prior-to-the~~ date-of-approval-of-a-loan application for an SRF loan.
- c. Cost of service lines and in-house plumbing.
- d. Administrative costs of the recipient.
- e. Vehicles and tools.

ITEM 4. Amend subrule 92.9(2) as follows:

92.9(2) Final payment. Final payment to the recipient can be made following the final inspection and acceptance by the recipient and the department, and the following have been reviewed and approved:

- a. A request for final payment from the recipient.
- b. Certification by the recipient of project completion and acceptance by the recipient or an acceptable close-out settlement for projects that have encountered a dispute.
- c. Certification by the recipient that labor standard provisions have been met.
- d. An acceptable ~~operation -and -maintenance -manual; -if -applicable~~ and enacted user charge ordinance.
- e. Recap of all engineering, legal, administrative, and all other allowable and unallowable expenses.
- f. Final project budget showing all funding sources utilized by budget categories.
- g. Execution of a loan agreement adjustment based on final costs.

Dated this _____ day of July, 1991.

Larry J. Wilson, Director

(A:EP92A.MIN/182-91/bkp)

Mr. Stokes explained rule revisions.

Charlotte Mohr asked what effect this has on cities that were on the priority listing several years ago.

Mr. Stokes stated that the current list is still there and would be the one used for this year. He added that the list would be recalculated next year and then every two years thereafter.

William Ehm asked if the title of this item should be corrected to clarify that it refers to loans. He related that the word "grants" remains in the item title.

Mr. Stokes stated that the wording "financial assistance" is used in the body of the rule and the item title can be changed accordingly.

Motion was made by Clark Yeager to adopt Final Rule--Chapters 91 and 92, Criteria for Award of Grants; State Revolving Fund Loans for Wastewater Treatment, with the change suggested by Commissioner Ehm. Seconded by Charlotte Mohr. Motion carried unanimously.

PUBLIC PARTICIPATION

Charlotte Caves

Charlotte Caves, Oskaloosa, addressed the Commission stating that her husband went on trial last week for hazardous waste disposal. Her husband received a two year sentence which was deferred to two years probation and a \$3,000 fine. She stated that they own a dry cleaning plant and there was an abandoned well on their property which had been filled with numerous articles by her husband's great aunt. Additionally, a number of different people had filled it in with trash. Mrs. Caves stated that they purchased the dry cleaners in 1983 and the following year purchased a new machine which used perchloroethylene for dry cleaning. The new machine had a still system in it and, after distillation, the sludge and remaining perchloroethylene was disposed of at the landfill, which was legal at that time. She added that once in awhile her husband would take a container of the sludge out and put it in the well. Mrs. Caves stated that they have now complied with everything the state has required them to do. She noted that they hired Tom Kabis, Groundwater Research, to do a site assessment and he provided the results to DNR in January. She related that the department refused the site assessment and cleanup plan because they wanted more wells drilled. Mrs. Caves stated that they would like to get some financial assistance or guidance. She stated that if they do not get some assistance they will have to file bankruptcy and turn the site over to the state.

Chairperson Hartsuck asked Mrs. Caves what she would like from the Commission.

Mrs. Caves stated that she would like to see a limit put on the amount they can be assessed. She added that if they do not get help they will have to turn it over to the state.

Director Wilson stated that he can understand the concern about the amount of site assessment that has been required. He added that whenever staff looks at a site cleanup they want to make certain that they have done a proper, thorough assessment to identify the extent of contamination to insure capture of all contamination during remediation. Mr. Wilson suggested that Mrs. Caves meet with Allan Stokes who can work with her and review what assessment is needed.

FINAL RULE--CHAPTER 61, WATER QUALITY STANDARDS: STREAM USE
DESIGNATIONS - PHASE III

Allan Stokes, Division Administrator, Environmental Protection Division, presented the following item.

The Commission is requested to approve the Final Rule for revisions to Chapter 61, Water Quality Standards - Use Designations (Round III). The recently enacted numerical and narrative criteria of the water quality standards include new aquatic use protection designations for Iowa's water bodies. As part of the continued staff activity to properly determine and assign the appropriate use designations to all the individual streams, lakes, and wetlands, an additional set of stream segments (Round III) have been surveyed and use designations proposed. This rule also includes protected flows that have been established on stream segments where protection of the stream at the 7Q10 flow is not warranted. Included are:

- * Stream segments previously designated as B (warm water) and proposed to be designated as B (significant resource warm water).

- * Stream segments previously designated as B (warm water) and proposed to be designated as B (limited resource warm water).

- * Stream segments previously designated as General Use and proposed to be designated as B (limited resource warm water).

- * Stream segments for which a protected flow has been established and the proposed protected stream flow rate.

The list of stream segments, the proposed use designation for each segment, and proposed protected flows are included in the Final Rule. Six public hearing were held at which five oral and six written comments were received. Several comments opposed the proposed use designations on four streams for various reasons. A comment supported the proposed use designation on one of the four controversial streams. The attached Responsiveness Summary presents the comments and provides a discussion of the comments. Two modifications are recommended to the use designations for one stream.

(A copy of the Responsiveness Summary is on file in the department's Records Center)

(Rule is shown on the following 41 pages)

ENVIRONMENTAL PROTECTION COMMISSION [567]
Adopted and Filed

Pursuant to the authority of Iowa Code sections 455B.105 and 455B.173, the Environmental Protection Commission for the Department of Natural Resources amends Chapter 61, "Water Quality Standards", Iowa Administrative Code.

The recent revisions which amended the numerical and narrative criteria of the water quality standards, published as ARC 821A and effective May 23, 1990, included publishing requirements of the protected flows established for designated streams and the new aquatic use protection designations for Iowa's various water bodies.

This Final Rule proposes to add, as item 1, a new rule referenced document which specifically lists the protected flows which have been recommended for various designated streams or streams proposed to be designated as a part of this round of use designation. The protected flows are established in lieu of the natural seven-day ten-year low flows. Subrule 61.2(5) provides for the establishment of a protected flow, higher in magnitude than the 7Q10, when the designated uses may not be present during the 7Q10 conditions, but the uses are present during the protected flow conditions.

It is anticipated that approximately three years of field activities will be required to properly determine and assign the appropriate use designations to all individual rivers, streams and lakes. The determination and adoption of use designations are required prior to implementation of the amended water quality standards in establishing individual effluent limits for wastewater treatment facilities. This Final Rule is the third group of waters for which the new use designations are warranted.

This list of rivers and streams, noted in item 2, represents water bodies which: 1) were previously Class B(warm water) segments that are proposed to be designated as Class B(WW) Significant Resource warm water, 2) were previously Class B(warm water) segments that are proposed to be designated as Class B(LR) Limited Resource warm water, or 3) were previously General Classified streams that are proposed to be designated as Class B(LR) Limited Resource warm water. The review of these segments has been prompted to facilitate needed wastewater treatment facility planning activities. The specific use designations are noted in subrule 61.3(5)"e".

This list of stream segments is to be inserted into subrule 61.3(5)"e" according to each segment's relationship in the drainage basin. The list does not include all of the stream segments in the state, but only the additional segments recommended to be adopted in the rules at this time.

A Notice of Intended Action was published on March 20, 1991, as ARC 1729A. Public hearings were held on March 12, 13, 14, and 15, 1991.

The amendments to include the use designations and the protected flow document were adopted on May 21, 1991. Two modifications to the proposed rules, as published under the

notice of intended action, have been made. These modifications are to the use designation for Big Creek in Henry County (Skunk River basin). A portion of the upper segment of Big Creek is modified from a Class B(WW) Significant Resource to a Class B(LR) Limited Resource designation. In addition, a Class A Primary Contact use designation was added to a major portion of the lower portions of Big Creek. These modifications are a result of comments received during the comment period. Nine written and oral comments were received. These comments have been addressed in a responsiveness summary available from the department. This summary is on file with the Administrative Rules Coordinator. An economic assessment was prepared for the third phase of the use designations. This assessment is available from the department and is on file with the Administrative Rules Coordinator.

These rules are intended to implement Iowa Code chapter 455B, division III, part I. These rules become effective July 17, 1991, after filing with the Administrative Rules Coordinator and publication in the Iowa Administrative Bulletin.

ITEM 1. Insert the following into subrule 61.2(5), second unnumbered paragraph: All minimum flows established under the provisions of this rule will be published annually by the department. The minimum flows, commonly termed protected flows, are presented in "Iowa Water Quality Standards: Protected Flows For Selected Stream Segments", dated December 12, 1990. A copy of this document is available upon request from the department. A copy is also on file with the Iowa Administrative Rules Coordinator.

ITEM 2. Insert the following into subrule 61.3(5)"e" in their natural sequence or hydrological order:

Iowa Water Quality Standards
Water Use Designations

WESTERN IOWA RIVER BASINS

Western Iowa River Basins (Missouri, Big Sioux, and Little Sioux Rivers)

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations for Western Iowa River Basins. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Water Use Designations.

Dry Run - 21	Lost Island Outlet - 16	Otter Creek - 12
Dugout Creek - 24	Milford Creek - 22	Pickrel Run - 17
Floyd River - 4	Mink Creek - 6	Rock River - 8, 9
Kanaranzi Creek - 13	Moser Creek - 3	Stony Creek - 19
Little Floyd River - 7	Mosquito Creek - 1, 2	West Branch Floyd River - 5
Little Ocheyedun River - 20	Mud Creek - 10	West Fork Little Sioux River - 23
Little Rock River - 11	Ocheyedun River - 18	
	Odebolt Creek - 15	

		Water Uses							
		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Mosquito Cr.</u>									
1.	Mouth (Pottawattamie Co.) to confluence with Little Mosquito Cr. (S29, T75N, R43W, Pottawattamie Co.)		X						
2.	Confluence with Little Mosquito Cr.(Pottawattamie Co.) to confluence with Moser Cr. (S12, T80N, R40W, Shelby Co.)			X					
<u>Moser Cr.</u>									
3.	Mouth (Shelby Co.) to confluence with an unnamed tributary (S30, T81N, R39W, Shelby Co.)			X					
<u>Floyd R.</u>									
4.	Confluence with W. Br. Floyd R. (Plymouth Co.) to confluence with North Fork (S9, T97N, R41W, O'Brien Co.)			X					
<u>West Branch Floyd R.</u>									
5.	Mouth (Plymouth Co.) to confluence with an unnamed tributary (NE 1/4, S18, T96N, R44W, Sioux Co.)			X					
<u>Mink Cr.</u>									
6.	Mouth to confluence with an unnamed tributary (NE 1/4, S21, T93N, R46W, Plymouth Co.)			X					
<u>Little Floyd R.</u>									
7.	Mouth (Sioux Co.) to confluence with Lamkin Cr. (S8, T96N, R42W, O'Brien Co.)			X					

Iowa Water Quality Standards
Water Use Designations

WESTERN IOWA RIVER BASINS

WESTERN IOWA RIVER BASINS		Water Uses							
		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Rock R.</u>									
8.	Mouth (Sioux Co.) to confluence with Kanaranzi Cr. (S28, T100N, R45W, Lyon Co.)		X						
9.	Confluence with Kanaranzi Cr. (Lyon Co.) to the Iowa- Minnesota state line			X					
<u>Mud Cr.</u>									
10.	Mouth (Lyon Co.) to the Iowa-Minnesota state line			X					
<u>Little Rock R.</u>									
11.	Mouth (Lyon Co.) to the Iowa-Minnesota state line			X					
<u>Otter Cr.</u>									
12.	Mouth (Lyon Co.) to confluence with an unnamed tributary (S14, T99N, R42W, Osceola Co.)			X					
<u>Kanaranzi Cr.</u>									
13.	Mouth (Lyon Co.) to the Iowa-Minnesota state line			X					
LITTLE SIOUX RIVER SUBBASIN									
<u>Little Sioux R.</u>									
14.	Confluence with W Fork Little Sioux R. (S7, T99N, R37W, Dickinson Co.) to the Iowa-Minnesota state line			X					
<u>Odebolt Cr.</u>									
15.	Mouth (Ida Co.) to confluence with an unnamed tributary (S24, T87N, R39W, Ida Co.)			X					
<u>Lost Island Outlet</u>									
16.	Mouth (Clay Co.) to confluence with Pickerel Run S17, T96N, R36W, Clay Co.)			X					
<u>Pickerel Run</u>									
17.	Mouth (Clay Co.) to confluence with an unnamed tributary (S31, T97N, R35W, Clay Co.)			X					
<u>Ocheyedan R.</u>									
18.	Mouth (Clay Co.) to the Iowa-Minnesota state line			X					
<u>Stony Cr.</u>									
19.	Mouth (Clay Co.) to confluence with an unnamed tributary (S27, T98N, R38W, Dickinson Co.)			X					

Iowa Water Quality Standards
Water Use Designations

WESTERN IOWA RIVER BASINS

(Little Sioux R. Tributaries, Continued)

		Water Uses							
		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
	<u>Little Ocheyedan R.</u>								
20.	Mouth (Osceola Co.) to confluence with an unnamed tributary (NW 1/4, S4, T98N, R40W, Osceola Co.)			X					
	<u>Dry Run</u>								
21.	Mouth (Osceola Co.) to confluence with an unnamed tributary (S17, T99N, R39W, Osceola Co.)			X					
	<u>Milford Cr.</u>								
22.	Mouth (Dickinson Co.) to confluence with an unnamed tributary S18, T98N, R36W, Dickinson Co.			X					
	<u>West Fork Little Sioux R.</u>								
23.	Mouth (Dickinson Co.) to the Iowa-Minnesota state line			X					
	<u>Dugout Cr.</u>								
24.	Mouth (Dickinson Co.) to confluence with the first upstream unnamed tributary (S15, T99N, R38W, Dickinson Co.)			X					

Iowa Water Quality Standards
Water Use Designations

SOUTHERN IOWA RIVER BASINS

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations for Southern Iowa River Basins. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Water Use Designations.

Brushy Creek - 20	Little Walnut Creek - 6	Tarkio River - 28
Cooper Creek - 4	Middle Branch 102 River - 25	Turkey Creek - 14
Crooked Creek - 11	Middle Fork 102 River - 19	Walnut Creek - 5
E. Fork 102 River - 18	Middle Fork Grand River - 8	Walnut Creek - 10
Elk Creek - 32	Middle Nodaway River - 26, 27	W. Branch 102 River - 23, 24
Fox River - 1	North Fox Creek - 2	W. Fork 102 River - 21, 22
Gard Branch - 15	Platte Branch - 16	W. Fork West Nishnabotna River - 30
Grand River (aka Thompson R.) - 7	Plum Creek - 13	W. Nishnabotna River - 29
Grand River - 9	Rose Branch - 22(a)	Willow Creek - 31
Honey Creek - 17	South Fox Creek - 3	
	Squaw Creek - 12	

Water Uses

	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Fox R.</u>								
1. Iowa-Missouri state line to confluence with an unnamed tributary (S29, T69N, R15W, Davis Co.)			X					
<u>North Fox Cr.</u>								
2. Mouth (Davis Co.) to confluence with an unnamed tributary (S2, T69N, R16W, Appanoose Co.)			X					
<u>South Fox Cr.</u>								
3. Mouth (SE 1/4 S28, T69N, R15W, Davis Co.) to confluence with an unnamed tributary (S5, T68N, R15W, Davis Co.)			X					
<u>Cooper Cr.</u>								
4. Mouth (Appanoose Co.) to confluence with an unnamed tributary (S9, T68N, R19W, Appanoose Co.)			X					
<u>Walnut Cr.</u>								
5. Mouth (Appanoose Co.) to confluence with an unnamed tributary (S31, T69N, R19W, Appanoose Co.)			X					
<u>Little Walnut Cr.</u>								
6. Mouth (Appanoose Co.) to confluence with Wolf Branch (S12, T69N, R19W, Appanoose Co.)			X					

Iowa Water Quality Standards
Water Use Designations

SOUTHERN IOWA RIVER BASINS

	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Grand R. (aka Thompson R.)</u>								
7. Confluence with Ninemile Cr. (Adair Co.) to confluence with Marvel Cr. (S8, T75N, R30W, Adair Co.)			X					
<u>Middle Fork Grand R.</u>								
8. Iowa-Missouri state line (Ringgold Co.) to confluence with an unnamed tributary (S13, T68N, R30W, Ringgold Co.)			X					
<u>Grand R.</u>								
9. Iowa-Missouri state line (Ringgold Co.) to bridge crossing (S25/36, T71N, R30W, Union Co.)			X					
<u>Walnut Cr.</u>								
10. Mouth (Ringgold Co.) to confluence with an unnamed tributary (NE 1/4, S36, T69N, R30W, Ringgold Co.)			X					
<u>Crooked Cr.</u>								
11. Mouth (Ringgold Co.) to confluence with Brush Cr. (S28, T69N, R30W, Ringgold Co.)			X					
<u>Squaw Cr.</u>								
12. Mouth (Ringgold Co.) to confluence with an unnamed tributary (S27, T70N, R30W, Ringgold Co.)			X					
<u>Plum Cr.</u>								
13. Mouth (Ringgold Co.) to confluence with West Plum Cr. (S18, T70N, R30W, Ringgold Co.)			X					
<u>Turkey Cr.</u>								
14. Mouth (Ringgold Co.) to confluence with an unnamed tributary (NE 1/4, S29, T31W, R69N, Ringgold Co.)			X					
<u>Gard Branch</u>								
15. Mouth (Ringgold Co.) to confluence with an unnamed tributary (SE 1/4, S20, T70N, R31W, Ringgold Co.)			X					

Iowa Water Quality Standards
Water Use Designations

SOUTHERN IOWA RIVER BASINS

		Water Uses							
		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Platte Branch</u>									
16.	Iowa-Missouri state line to bridge crossing (S16/17, T68N, R32W, Taylor Co.)			X					
<u>Honey Cr.</u>									
17.	Iowa-Missouri state line to confluence with an unnamed tributary (S14, T69N, R32W, Taylor Co.)			X					
<u>East Fork 102 R.</u>									
18.	Iowa-Missouri state line to bridge crossing (Center, S8, T68N, R33W, Taylor Co.)		X						
<u>Middle Fork 102 R.</u>									
19.	Iowa-Missouri state line to Hwy 149 bridge crossing (S22/23, T69N, R34W, Taylor Co.)			X					
<u>Brushy Cr.</u>									
20.	Mouth (Taylor Co.) to confluence with an unnamed tributary (S24, T68N, R35W, Taylor Co.)			X					
<u>West Fork 102 R.</u>									
21.	Iowa-Missouri state line to confluence with the West Branch 102 R. (S10, T68N, R35W, Taylor Co.)		X						
22.	Confluence with West Branch 102 R. (S10, T68N, R35W, Taylor Co.) to confluence with an unnamed tributary (S6, T70N, R34W, Taylor Co.)			X					
<u>Rose Branch</u>									
22(a)	Mouth (Taylor Co.) to confluence with an unnamed tributary (S34, T71N, R34W, Adams Co.)			X					
<u>West Branch 102 R.</u>									
23.	Mouth (Taylor Co.) to confluence with Middle Branch 102 R. (S6, T69N, R34W, Taylor Co.)		X						
24.	Confluence with Middle Branch 102 R. (S6, T69N, R34W, Taylor Co.) to confluence with Willow Cr. (S29, T71N, R33W, Adams Co.)			X					
<u>Middle Branch 102 R.</u>									
25.	Mouth (Taylor Co.) to bridge crossing at (S16/21, T70N, R33W, Taylor Co.)			X					

Iowa Water Quality Standards
Water Use Designations

SOUTHERN IOWA RIVER BASINS

	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Middle Nodaway R.</u>								
26. Mouth (Montgomery Co.) to confluence with West Fork Middle Nodaway (S33, T74N, R33W, Adair Co.)		X						
27. Confluence with West Fork Middle Nodaway (Adair Co.) to confluence with an unnamed tributary (S1, T75N, R32W, Adair Co.)			X					
<u>Tarkio R.</u>								
28. Confluence with East Tarkio Cr. (S9, T68N, R38W, Page Co.) to confluence with East Tarkio Cr. (S4, T72N, R37W, Montgomery Co.)			X					
<u>West Nishnabotna R.</u>								
29. Confluence with West Fork West Nishnabotna R. to confluence with Elk Cr. (S36, T81N, R38W, Shelby Co.)			X					
<u>West Fork West Nishnabotna R.</u>								
30. Mouth (Shelby Co.) to confluence with Maloney Branch (S29, T83N, R37W, Crawford Co.)			X					
<u>Willow Cr.</u>								
31. Mouth (Shelby Co.) to confluence with an unnamed tributary (S3, T81N, R39W, Shelby Co.)			X					
<u>Elk Cr.</u>								
32. Mouth (Shelby Co.) to confluence with an unnamed tributary (NW 1/4, S28, T82N, R37W, Crawford Co.)			X					

Iowa Water Quality Standards
Water Use Designations

DES MOINES RIVER BASIN

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations for the Des Moines River Basins. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Water Use Designations.

Badger Creek - 20	Honey Creek - 29	North River - 17, 18
Big Creek - 28	Jim Creek - 23	Otter Creek - 31
Brush Creek - 7	Jones Creek - 13	Outlet Creek - 33
Calhoun Creek - 8	Little Fourmile Creek - 27	Plunger Creek - 24
Camp Creek - 9	Little White Breast Creek - 6	S. Fork Clanton Creek - 15
Cavitt Creek - 11	Middle Branch Boone River - 32	Spring Branch - 38
Clanton Creek - 12	Middle Creek - 19	Sugar Creek - 1
Coal Creek - 10	Middle Raccoon River - 34, 35	Tom Creek - 22
Competine Creek - 4	Muchakinock Creek - 2	White Breast Creek - 5
D.D. 94 - 30	Mud Creek - 16	Willey Branch - 37
English Creek - 3	N. Branch North River - 21	Willow Creek - 36
Fourmile Creek - 25, 26	N. Fork Clanton Creek - 14	

LOWER DES MOINES RIVER SUBBASIN

(Des Moines R. Tributaries)

	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Sugar Cr.</u>								
1. Mouth (Lee Co.) to bridge crossing (S8, T67N, R6W, lee Co.)			X					
<u>Muchakinock Cr.</u>								
2. Confluence with Little Muchakinock Cr. (S34, T75N, R16W, Mahaska Co.) to confluence with an unnamed tributary (NW 1/4 of SW1/4, S27, T76N, R17W, Mahaska Co.)			X					
<u>English Cr.</u>								
3. Mouth (Marion Co.) to confluence with Long Branch (S16, T74N, R20W, Marion Co.)			X					
<u>Competine Cr.</u>								
4. Mouth (Marion Co.) to confluence with an unnamed tributary (S5, T75N, R19W, Marion Co.)			X					
<u>White Breast Cr.</u>								
5. Confluence with Little White Breast Cr.(Lucas Co.) to confluence with an unnamed tributary (S4, T71N R24W, Clarke Co.)			X					

Iowa Water Quality Standards
Water Use Designations

DES MOINES RIVER BASIN

(Des Moines R. Tributaries, Continued)

		Water Uses							
		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
	<u>Little White Breast Cr.</u>								
6.	Mouth (Lucas Co.) to Ellis Lake (S27, T72N, R21W, Lucas Co.)			X					
	<u>Brush Cr.</u>								
7.	Mouth (Lucas Co.) to confluence with an unnamed tributary (W 1/2, S21, T72N, R23W, Lucas Co.)			X					
	<u>Calhoun Cr.</u>								
8.	Mouth (Marion Co.) to confluence with Union Valley Cr. (S33, T78N, R20W, Jasper Co.)			X					
	<u>Camp Cr.</u>								
9.	Mouth (Jasper Co.) to confluence with an unnamed tributary (S14, T79N, R22W, Polk Co.)			X					
	<u>Coal Cr.</u>								
10.	Mouth (Warren Co.) to confluence with Coon Cr. (S29, T76N, R21W, Marion Co.)			X					
	<u>Cavitt Cr.</u>								
11.	Mouth (Warren Co.) to confluence with an unnamed tributary (S13, T76N, R24W, Warren Co.)			X					
	<u>Clanton Cr.</u>								
12.	Confluence with Jones Cr. (Madison Co.) to the confluence with the North Fork and South Fork Clanton Cr. (SW 1/4, S10, T74N, R27W, Madison Co.)			X					
	<u>Jones Cr.</u>								
13.	Mouth (Madison Co.) to confluence with an unnamed tributary (S28, T75N, R27W, Madison Co.)			X					
	<u>North Fork Clanton Cr.</u>								
14.	Mouth (Madison Co.) to confluence with an unnamed tributary (S8/9, T74N, R28W, Madison Co.)			X					
	<u>South Fork Clanton Cr.</u>								
15.	Mouth (Madison Co.) to confluence with an unnamed tributary (NE1/4 of NW 1/4, S36, T74N, R28W, Madison Co.)			X					
	<u>Mud Cr.</u>								
16.	Mouth (Polk Co.) to confluence with an unnamed tributary (S36, T80N, R23W, Polk Co.)			X					

Iowa Water Quality Standards
Water Use Designations

DES MOINES RIVER BASIN

(Des Moines R. Tributaries, Continued)

		Water Uses							
		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>North R.</u>									
17.	Mouth (Polk Co.) to confluence with North Branch North R. (S35, T77N, R27W, Madison Co.)		X						
18.	Confluence with North Branch North R. (Madison Co.) to confluence with an unnamed tributary (S11, T77N, R31W, Adair Co.)			X					
<u>Middle Cr.</u>									
19.	Mouth (Warren Co.) to Lake Colechester Dam (NE 1/4, S1, T77N, R25W, Warren Co.)			X					
<u>Badger Cr.</u>									
20.	Mouth (Warren Co.) to Badger Lake Dam (NW 1/4, S13, T77N, R27W, Madison Co.)			X					
<u>North Branch North R.</u>									
21.	Mouth (Madison Co.) to confluence with an unnamed tributary (S5, T77N, R29W, Madison Co.)			X					
<u>Tom Cr.</u>									
22.	Mouth (Madison Co.) to confluence with an unnamed tributary (S26, T77N, R29W, Madison Co.)			X					
<u>Jim Cr.</u>									
23.	Mouth (Madison Co.) to confluence with an unnamed tributary (S15, T77N, R29W, Madison Co.)			X					
<u>Plunger Cr.</u>									
24.	Mouth (Adair Co.) to confluence with an unnamed tributary (S26, T77N, R30W, Adair Co.)			X					
<u>Fourmile Cr.</u>									
25.	Mouth (Polk Co.) to Co. Rd. bridge (S18, T80N, R23W, Polk Co.)	X		X					
26.	Co. Rd. bridge (S18, T80N, R23W, Polk Co.) to bridge crossing (N line of S22, T81N, R24W, Polk Co.)			X					
<u>Little Fourmile Cr.</u>									
27.	Mouth (Polk Co.) to confluence with unnamed an tributary (S35, T79N, R23W, Polk Co.)			X					

Iowa Water Quality Standards
Water Use Designations

DES MOINES RIVER BASIN

UPPER DES MOINES RIVER SUBBASIN

	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Big Creek</u> (aka Big Cr. Lake Outlet)								
28. Mouth (Polk Co.) to Big Creek Lake Dam (SW 1/4, S26, T81N, R25W, Polk Co.)			X					
<u>Honey Cr.</u>								
29. Mouth (Boone Co.) to bridge crossing at (NW 1/4, S33, T84N, R26W, Boone Co.)			X					
<u>D.D. 94</u>								
30. Mouth (Wright Co.) to West line of S3, T90N, R26W, Wright Co.			X					
<u>Otter Cr.</u>								
31. Mouth (Wright Co.) to confluence with West Otter Cr. (S31, T93N, R25W, Wright Co.)			X					
<u>Middle Branch Boone R.</u>								
32. Mouth (Hancock Co.) to confluence with an unnamed tributary (S31, T95N, R25W, Hancock Co.)			X					
RACCOON RIVER SUBBASIN								
<u>Outlet Cr.</u>								
33. Mouth (Buena Vista Co.) to bridge crossing at (S26/27, T90N, R36W, Buena Vista Co.)			X					
<u>Middle Raccoon R.</u>								
34. Guthrie-Carroll Co. line to confluence with Willey Branch (S26, T83N, R34W, Carroll Co.)		X						
35. Confluence with Willey Branch (Carroll Co.) to confluence with an unnamed tributary (S8, T84N, R35W, Carroll Co.)			X					
<u>Willow Cr.</u>								
36. Mouth (Guthrie Co.) to confluence with an unnamed tributary (SE 1/4, S30, T83N, R32W, Green Co.)			X					
<u>Willey Branch</u>								
37. Mouth (Carroll Co.) to confluence with an unnamed tributary (S29, T83N, R34W, Carroll Co.)			X					
<u>Spring Branch</u>								
38. Mouth (Carroll Co.) to confluence with an unnamed tributary (S16, T83N, R34W, Carroll Co.)			X					

Iowa Water Quality Standards
Water Use Designations

SKUNK RIVER BASIN

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations for the Skunk River Basins. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Water Use Designations.

Ballard Creek - 16	E. Branch Indian Creek - 14
Benjamin Creek - 13	Long Creek - 1
Big Creek - 2, <u>2a</u> , 3	Lynn Creek - 5
Brush Creek - 4	Rock Creek -
Cedar Creek - 6, 7	S. Skunk River - 11
Cherry Creek - 12	Sugar Creek - 17
Competine Creek - 10	W. Branch Indian Creek - 15
Crow Creek - 9	

	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Long Cr.</u>								
1. Mouth (Des Moines Co.) to confluence with an unnamed tributary (S3, T69N, R4W, Des Moines Co.)			X					
<u>Big Cr.</u>								
2. Mouth (Henry Co.) to confluence with N-Branch-Big Cr- <u>Saunders Br.</u> (S1736, T712N, R6W, Henry Co.)	X	X						
<u>2a. Confluence with Saunders Br. (S17, T71N, R6W, Henry Co.) to the confluence with Brandywine Cr. (S20, T72N, R6W, Henry Co.)</u>	X		X					
3. Confluence with N-Branch-Big-Cr- <u>Brandywine Cr.</u> (S2036, T72, R6W, Henry Co.) to confluence with Lawrence Cr. (S5, T71N, R5W, Henry Co.)			X					
<u>Brush Cr.</u>								
4. Mouth (Henry Co.) to confluence with an unnamed tributary (S32, T71N, R5W, Henry Co.)			X					

Iowa Water Quality Standards
Water Use Designations

SKUNK RIVER BASIN

		Water Uses							
		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Lynn Cr.</u>									
5.	Mouth (Henry Co.) to confluence with an unnamed tributary (S7, T72N, R6W, Henry Co.)			X					
<u>Cedar Cr.</u>									
6.	Mouth (Henry Co.) to confluence with Little Cedar Cr. (S17, T70N, R7W, Henry Co.)		X						
7.	Confluence with Little Cedar Cr. (Sec. 17, T70N, R7W, Henry Co.) to confluence with Little Cedar Cr. (S26, T73N, R13W, Wapello Co.)			X					
<u>Rock Cr.</u>									
8.	Mouth (Jefferson Co.) to confluence with Jones Br. (Sec. 29, T71N, R8W, Jefferson Co.)			X					
<u>Crow Cr.</u>									
9.	Mouth (Jefferson Co.) to confluence with an unnamed tributary (NW 1/4 of SW 1/4, S31, T72N, R9W, Jefferson Co.)			X					
<u>Competine Cr.</u>									
10.	Mouth (Jefferson Co.) to confluence with an unnamed tributary (S15, T73N, R12W, Wapello Co.)			X					
<u>S Skunk R.</u>									
11.	Confluence with Indian Cr. (Jasper Co.) to Ames Water Works Dam (S36, T84N, R24W, Story Co.)		X						
<u>Cherry Cr.</u>									
12.	Mouth (Jasper Co.) to confluence with Benjamin Cr. (S20, T80N, R19W, Jasper Co.)			X					
<u>Benjamin Cr.</u>									
13.	Mouth (Jasper Co.) to confluence with an unnamed tributary (NE 1/4, S21, T80N, R19W, Jasper Co.)			X					

Iowa Water Quality Standards
Water Use Designations

SKUNK RIVER BASIN

		Water Uses							
		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>E. Branch Indian Cr.</u>									
14.	Mouth (S16, T82N, R22W, Story Co.) to confluence with an unnamed tributary (S34, T85N, R22W, Story Co.)			X					
<u>W. Branch Indian Cr.</u>									
15.	Mouth (S16, T82N, R22W, Story Co.) to confluence with an unnamed tributary (S1, T83N, R23W, Story Co.)			X					
<u>Ballard Cr.</u>									
16.	Mouth (Story Co.) to confluence with an unnamed tributary (S15, T82N, R24W, Story Co.)			X					
(N Skunk R. Tributaries)									
<u>Sugar Cr.</u>									
17.	Mouth (Poweshiek Co.) to Interstate 80 bridge crossing (Jasper Co.)			X					

Iowa Water Quality Standards
Water Use Designations

IOWA-CEDAR RIVER BASIN

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations for the Iowa-Cedar River Basins. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Water Use Designations.

Bailey Creek - 27	English River - 6	Spring Creek - 26
Beaverdam Creek - 29	Flint Creek - 3	Squaw Creek - 25
Big Hollow Creek - 5	Holland Creek - 23	Timber Creek - 11
Black Hawk Creek - 22	Knotty Creek - 4	Wapsinonoc Creek - 16, 17
Brush Creek - 2	Mill Creek - 8	W. Branch Beaverdam Creek - 31
Brush Creek - 13	Mud Creek - 21	W. Branch Wapsinonoc Creek - 18
Clear Creek - 7	N. Timber Creek - 14	W. Fork Cedar River - 24
D.D. 70 - 28	Otter Creek - 10	
E. Branch Beaverdam Creek - 30	Pike Run - 19, 20	
E. Branch Iowa River - 15	S. Timber Creek - 12	
E. Branch Salt Creek - 9	Spring Creek - 1	

	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
(Mississippi R. Tributaries)								
<u>Spring Cr.</u>								
1. Mouth (Des Moines Co.) to confluence with an unnamed tributary (SE 1/4, S3, T69N, R3W, Des Moines Co.)			X					
<u>Brush Cr.</u>								
2. Mouth (Des Moines Co.) to road crossing (S8, T69N, R3W, Des Moines Co.)			X					
<u>Flint Cr.</u>								
3. Mouth (Des Moines Co.) to the confluence with an unnamed tributary (NW 1/4, S21, T71N, R4W, Des Moines Co.)			X					
<u>Knotty Cr.</u>								
4. Mouth (Des Moines Co.) to confluence with an unnamed tributary (NE 1/4, S1, T70N, R3W, Des Moines Co.)			X					
<u>Big Hollow Cr.</u>								
5. Mouth (Des Moines Co.) to confluence with an unnamed tributary (NW 1/4, S30, T71N, R3W, Des Moines Co.)			X					
IOWA RIVER SUBBASIN								
<u>English R.</u>								
6. Mouth (Washington Co.) to confluence with Ramsey Cr. (S14, T77N, R8W, Washington Co.)		X						
<u>Clear Cr.</u>								
7. Mouth (Johnson Co.) to confluence with an unnamed tributary (S22, T80N, R9W, Iowa Co.)			X					

Iowa Water Quality Standards
Water Use Designations

IOWA-CEDAR RIVER BASIN

IOWA RIVER SUBBASIN

		Water Uses						
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>Mill Cr.</u>								
8. Mouth (Johnson Co.) to confluence with an unnamed tributary (S23, T81N, R6W, Johnson Co.)		X						
<u>E. Branch Salt Cr.</u>								
9. Confluence with Stein Cr. (S26, T84N, R13W, Tama Co.) to bridge crossing at (N line of S3, T84N, R13W, Tama Co.)			X					
<u>Otter Cr.</u>								
10. Mouth (Tama Co.) to the water control structure for Otter Creek Marsh (S12, T82N, R14W, Tama Co.)			X					
<u>Timber Cr.</u>								
11. Mouth (Marshall Co.) to confluence with N Timber Cr. (S24, T83N, R18W, Marshall Co.)			X					
<u>S. Timber Cr.</u>								
12. Mouth (S17, T83N, R17W, Marshall Co.) to confluence with an unnamed tributary (S10, T82N, R18W, Marshall Co.)			X					
<u>Brush Cr.</u>								
13. Mouth (Marshall Co.) to confluence with an unnamed tributary (S16, T82N, R17W, Marshall Co.)			X					
<u>N. Timber Cr.</u>								
14. Mouth (S24, T83N, R18W, Marshall Co.) to confluence with an unnamed tributary (S23, T83N, R19W, Marshall Co.)			X					
<u>E. Branch Iowa R.</u>								
15. Confluence with Galls Creek (Hancock Co.) to confluence with an unnamed tributary (N line, S34, T97N, R24W, Hancock Co.)			X					
CEDAR RIVER SUBBASIN								
<u>Wapsinonoc Cr.</u>								
16. Mouth (Muscatine Co.) to confluence with Big Slough (S2, T77N, R4W, Muscatine Co.)		X						
17. Confluence with Big Slough (Muscatine Co.) to confluence with the East Branch and Middle Branch Wapsinonoc Cr. (S6, T78N, R3W, Muscatine Co.)			X					

Iowa Water Quality Standards
Water Use Designations

IOWA-CEDAR RIVER BASIN

		Water Uses						
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
<u>W. Branch Wapsinonoc Cr.</u>								
18. Mouth (Muscatine Co.) to confluence with an unnamed tributary (S4, T78N, R4W, Muscatine Co.)			X					
<u>Pike Run</u>								
19. Mouth (Muscatine Co.) to confluence with an unnamed tributary (NE 1/4, S8, T77N, R3W, Muscatine Co.)		X						
20. Confluence with an unnamed tributary (NE 1/4, S8, T77N, R3W, Muscatine Co.) to the road crossing at (SW 1/4, S34, T78N, R3W, Muscatine Co.)			X					
<u>Mud Cr.</u>								
21. Mouth (Benton Co.) to confluence with an unnamed tributary (S15, T84N, R11W, Benton Co.)			X					
<u>Black Hawk Cr.</u>								
22. Confluence with Mosquito Cr. (S20, T87N, R15W, Grundy Co.) to confluence with an unnamed tributary (S12, T87N, R18W, Grundy Co.)			X					
<u>Holland Cr.</u>								
23. Mouth (Grundy Co.) to confluence with an unnamed tributary (S29, T88N, R17W, Grundy Co.)			X					
<u>West Fork Cedar R.</u>								
24. Confluence with Bailey Cr. (S19, T93N, R19W, Franklin Co.) to confluence with Beaverdam Cr. and E Branch Beaverdam Cr. (S21, T94N, R20W, Cerro Gordo Co.)			X					
<u>Squaw Cr.</u>								
25. Mouth (Franklin Co.) to confluence with an unnamed tributary (S29, T92N, R20W, Franklin Co.)			X					
<u>Spring Cr.</u>								
26. Mouth (Franklin Co.) to bridge crossing at (S21/22, T92N, R21W, Franklin Co.), [excluding Beeds L.]			X					
<u>Bailey Cr.</u>								
27. Mouth (Franklin Co.) to confluence with an unnamed tributary (S16, T94N, R22W, Cerro Gordo Co.)			X					
<u>D.D. 70</u>								
28. Mouth (Cerro Gordo Co.) to bridge crossing at (S13/14, T94N, R22W, Cerro Gordo Co.)			X					

Iowa Water Quality Standards
Water Use Designations

IOWA-CEDAR RIVER BASIN

		Water Uses							
		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
	<u>Beaverdam Cr.</u>								
29.	Mouth (Cerro Gordo Co.) to confluence with an unnamed tributary (S12, T95N, R22W, Cerro Gordo Co.)			X					
	<u>E Branch Beaverdam Cr.</u>								
30.	Mouth (Cerro Gordo Co.) to confluence with an unnamed tributary (S4, T94N, R20W, Cerro Gordo Co.)			X					
	<u>W Branch Beaverdam Cr.</u>								
31.	Mouth (Cerro Gordo Co.) to confluence with an unnamed tributary (S9, T94N, R21W, Cerro Gordo Co.)			X					

Iowa Water Quality Standards
Water Use Designations

NORTHEASTERN IOWA RIVER BASINS

Northeastern Iowa River Basins (Wapsipinicon River, Maquoketa River, North Fork Maquoketa River, Turkey River, Volga River, Yellow River, and Upper Iowa River Subbasins).

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations for Northeastern Iowa River Basins. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Water Use Designations.

Beaver Creek - 22	Middle Fk. Little Maquoketa R. - 15
Catfish Creek - 7, 8	Minor Creek - 20
Cloie Branch - 13	North Fk. Catfish Cr. - 11
Elk Creek - 3	North Fk. Little Maquoketa R. - 14
Granger Creek - 9	Roberts Creek - 18
Hogans Branch - 17	Silver Creek - 1
Lux Creek - 6	Silver Creek - 19
Middle Fork Catfish Cr. - 10	South Fk. Catfish Cr. - 12
	Spring Br. - 2
	Tete des Morts Cr. - 4, 5
	Unnamed Creek (near Lime Springs) - 21
	Unnamed Creek (aka Haberkorn Cr.) - 16

Iowa Water Quality Standards
Water Use Designations

	Water Uses							
	A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
WAPSIPINICON RIVER BASIN								
(Wapsipinicon R. Tributaries)								
<u>Silver Cr.</u>								
1. Confluence with Crystal Cr. (aka Clear Cr.) (Clinton Co.) to confluence with Nigger Cr. (aka Negro Cr.) (S27, T82, R3E, Clinton Co.)			X					
<u>Spring Br.</u>								
2. Mouth (S3, T94N, R13W, Chickasaw Co.) to N line of Sec. 35, T95N, R13W, Chickasaw Co.)			X					
<u>Elk Cr.</u>								
3. Mouth (Sec. 1, T96N, R14W, Chickasaw Co.) to confluence with an unnamed tributary (SW1/4, Sec. 20, T97N, R13W, Chickasaw Co.)			X					

Iowa Water Quality Standards
Water Use Designations

		Water Uses							
TURKEY RIVER SUBBASIN		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
(Mississippi R. Tributaries)									
<u>Tete des Morts Cr. (aka Tete des Morts R.)</u>			X						
4.	Mouth (Dubuque Co.) to confluence with Lux Creek (Section 7, T87N, R4E, Jackson Co.)								
5.	Confluence with Lux Creek (Section 7, T87N, R4E, Jackson Co.) to confluence with an unnamed tributary (SW1/4, NE1/4, S32, T88N, R3E, Dubuque Co.)			X					
<u>Lux Cr.</u>									
6.	Mouth (S7, T87N, R4E, Jackson Co.) to confluence with an unnamed tributary (S35, T88N, R3E, Dubuque Co.)			X					
<u>Catfish Cr.</u>									
7.	Confluence with Middle Fk. Catfish Cr. (Dubuque Co.) to confluence with South Fk. Catfish Cr. (Dubuque Co.)		X						
8.	Confluence with South Fk. Catfish Cr. (Dubuque Co.) to South line Section 9, T88N, R2E, Dubuque Co.)			X					
<u>Granger Cr.</u>									
9.	Mouth (Dubuque Co.) to county road bridge crossing (S24, T88N, R2E, Dubuque Co.)			X					
<u>Middle Fk. Catfish Cr. (aka N. Fk. Catfish Cr.)</u>				X					
10.	Mouth (Section 1, T88N, R2E, Dubuque Co.) to west line of Section 30, T89N, R2E, Dubuque Co.								
<u>North Fk. Catfish Cr.</u>									
11.	Mouth (Section 35, T89N, R2E, Dubuque Co.) to Hwy 20 bridge crossing (S27, T89N, R2E, Dubuque Co.)			X					
<u>South Fk. Catfish Cr.</u>									
12.	Mouth (Section 2, T88N, R2E, Dubuque Co.) to confluence with an unnamed tributary (SW 1/4 S3, T88N, R1E, Dubuque Co.)			X					
<u>Little Maquoketa R.</u>									
<u>Cloie Branch</u>									
13.	West line Section 5, T89N, R2E, Dubuque Co.) to confluence with an unnamed tributary in S18, T89N, R2E, Dubuque Co.)			X					

Iowa Water Quality Standards
Water Use Designations

		Water Uses							
		A	B(WW)	B(LR)	B(LW)	B(CW)	C	HQ	HQR
TURKEY RIVER SUBBASIN									
(Turkey R. Tributaries)									
<u>North Fk. Little Maquoketa R.</u>									
14.	Mouth (Section 31, T90N, R2E, Dubuque Co.) to W line Section 24, T90N, R1W, Dubuque Co.			X					
<u>Middle Fk. Little Maquoketa R.</u>									
15.	Mouth (Section 35, T90N, R1E, Dubuque Co.) to W line Section 31, T90N, R1E, Dubuque Co.			X					
<u>Unnamed Cr. (aka Haberkorn Cr.)</u>									
16.	Mouth (Section 27, T90N, R1E, Dubuque Co.) to confluence with an unnamed tributary in NE1/4, S15, T90N, R1E, Dubuque Co.)			X					
<u>Hogans Branch</u>									
17.	West line Section 9, T88N, R1W, Dubuque Co.) to county road bridge crossing (W line of S5, T88N, R1W, Dubuque Co.)			X					
<u>Roberts Cr.</u>									
18.	Mouth (Clayton Co.) to bridge crossing at (S25, T94, R5W, Clayton Co.)			X					
UPPER IOWA RIVER SUBBASIN									
(Upper Iowa R. Tributaries)									
<u>Silver Cr.</u>									
19.	Mouth (Section 2, T99N, R10W, Winneshiek Co.) to W line of Section 12, T99N, R11W, Howard Co.			X					
<u>Minor Cr.</u>									
20.	Mouth (Winneshiek Co.) to confluence with an unnamed tributary (E 1/2, S1, T99N, R11W, Howard Co.)			X					
<u>Unnamed Cr.</u>									
21.	Mouth (S21, T100N, R12W, Howard Co.) to confluence with an unnamed tributary in NW1/4, SW1/4, Section 28, T100N, R12W, Howard Co. (near Lime Springs)			X					
<u>Beaver Cr.</u>									
22.	South line of Section 29, T100N, R13W, Howard Co. to confluence with an unnamed tributary in NE1/4, S32, T100N, R13W, Howard Co.			X					

**Iowa Water Quality Standards:
Protected Flows
For Selected Stream Segments**

Prepared by the Department of Natural Resources

December 12, 1990

Iowa Water Quality Standards:
Protected Flows
For Selected Stream Segments

The following stream segments have had a protected flow established in lieu of the seven-day, ten-year, low flow (7Q10). The protected flows are numerically larger than the 7Q10 flows. It has been determined that the designated uses are present at the protected flow levels and are not sufficiently present at the 7Q10 level to warrant maintaining the 7Q10 value as the applicable stream flow condition. The numerical criteria in the Water Quality Standards will be met within designated streams when the stream flow equals or exceeds the protected flow, if established, or the natural 7Q10 value. These protected flows have been established following the procedures set forth in Chapter 61.2(5) and described in the "Supporting Document for Iowa Water Quality Management Plans" revised March 20, 1990.

WESTERN IOWA RIVER BASINS

The streams or stream segments named below in alphabetical order are referenced within the Water Use Designations for the Western Iowa River Basins. Reference numbers provided in the alphabetical list correspond to numbered stream segments in the Protected Flow listings.

Deep Creek - 5	Moser Creek - 2
Dry Run - 19	Mosquito Creek - 1
Floyd River - 3	Mud Creek - 9
Little Floyd River - 8	Ocheyedan River - 15
L. Ocheyedan River - 18	Odebolt Creek - 13
L. Rock River - 10	Pickerel Run - 15
L. Sioux River - 20	Stoney Creek - 17
Lost Island Outlet - 14	W. Br. Floyd River - 6
Mink Creek - 7	W. Fk. L. Sioux River - 21
	Whiskey Creek - 12
	Willow Creek - 4

(Missouri R. Tributaries)		Protected Flow (cfs)
<u>Mosquito Cr.</u>		
1.	Confluence with Neola Cr. (Pottawattamie Co.) to confluence with Moser Cr. (S12, T80N, R40W, Shelby Co.)	2
<u>Moser Cr.</u>		
2.	Mouth (Shelby Co.) to confluence with an unnamed tributary (S30, T81N, R39W, Shelby Co.)	1
<u>Floyd R.</u>		
3.	Confluence with Plymouth Cr. (Plymouth Co.) to confluence with North Fork (S9, T97N, R41W, O'Brien Co.)	2
<u>Willow Cr.</u>		
4.	Mouth (Plymouth Co.) to confluence with an unnamed	2

	tributary (NE1/4, S11, T93N, R44W, Plymouth Co.)	
	<u>Deep Cr.</u>	
5.	Mouth (Plymouth Co.) to confluence with an unnamed tributary (S35, T94N, R43W, Sioux Co.)	2
	<u>West Branch Floyd R.</u>	
6.	Mouth (Plymouth Co.) to confluence with an unnamed tributary (NE1/4, S18, T96N, R44W, Sioux Co.)	2
	<u>Mink Cr.</u>	
7.	Mouth (Plymouth Co.) to confluence with an unnamed tributary (NE1/4, S21, T93N, R46W, Plymouth Co.)	1
	<u>Little Floyd Cr.</u>	
8.	Mouth (Sioux Co.) to confluence with Lamkin Cr. (S8, T96N, R42W, O'Brien Co.)	1
	<u>Rock R.</u>	
	<u>Mud Cr.</u>	
9.	Mouth (Lyon Co.) to the Iowa-Minnesota state line	0.5
	<u>Little Rock R.</u>	
10.	Mouth (Lyon Co.) to the Iowa-Minnesota state line	0.5
	<u>Otter Cr.</u>	
11.	Mouth (Lyon Co.) to confluence with an unnamed tributary (S14, T99N, R42W, Osceola Co.)	0.5
LITTLE SIOUX RIVER SUBBASIN		
	<u>West Fork Little Sioux R. (mouth in Monona Co.)</u>	
	<u>Whiskey Cr.</u>	
12.	Mouth (Plymouth Co.) to confluence with an unnamed tributary (NW1/4, S11, T93N, R44W, Plymouth Co.)	2
	<u>Little Sioux R.</u>	
	<u>Odebolt Cr.</u>	
13.	Mouth (Ida Co.) to confluence with an unnamed tributary (S24, T87N, R39W, Ida Co.)	1
	<u>Lost Island Outlet</u>	
14.	Mouth (Clay Co.) to confluence with Pickerel Run (S17, T96N, R36W, Clay Co.)	1
	<u>Pickerel Run</u>	
15.	Mouth (Clay Co.) to confluence with an unnamed tributary (S31, T97N, R35W, Clay Co.)	0.5
	<u>Ocheyedan R.</u>	
16.	Mouth (Clay Co.) to the Iowa-Minnesota state line	2

	Protected Flow (cfs)
<u>Stony Cr.</u>	
17. Mouth (Clay Co.) to confluence with an unnamed tributary (S27, T98N, R38W, Dickinson Co.)	1
<u>Little Ocheyedan R.</u>	
18. Mouth (Osceola Co.) to confluence with an unnamed tributary (NW1/4, S4, T98N, R40W, Osceola Co.)	1
<u>Dry Run</u>	
19. Mouth (Osceola Co.) to confluence with an unnamed tributary (S17, T99N, R39W, Osceola Co.)	0.5
<u>Little Sioux R.</u>	
20. Confluence with the W Fk. Little Sioux R (Dickinson Co.) to the Iowa-Minnesota state line	1
<u>West Fork Little Sioux R.</u>	
21. Mouth (Dickinson Co.) to the Iowa-Minnesota state line	1